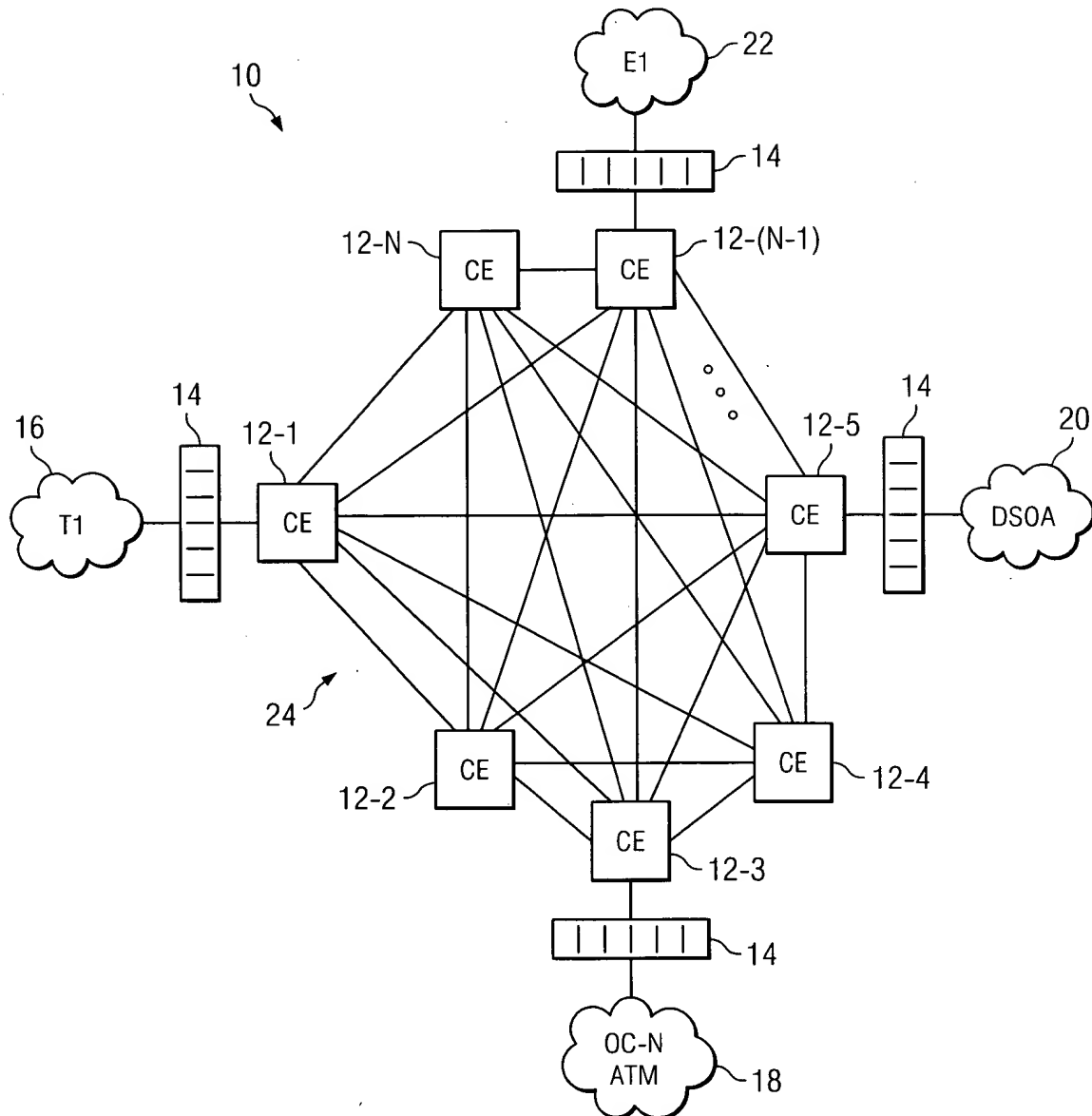


FIG. 1



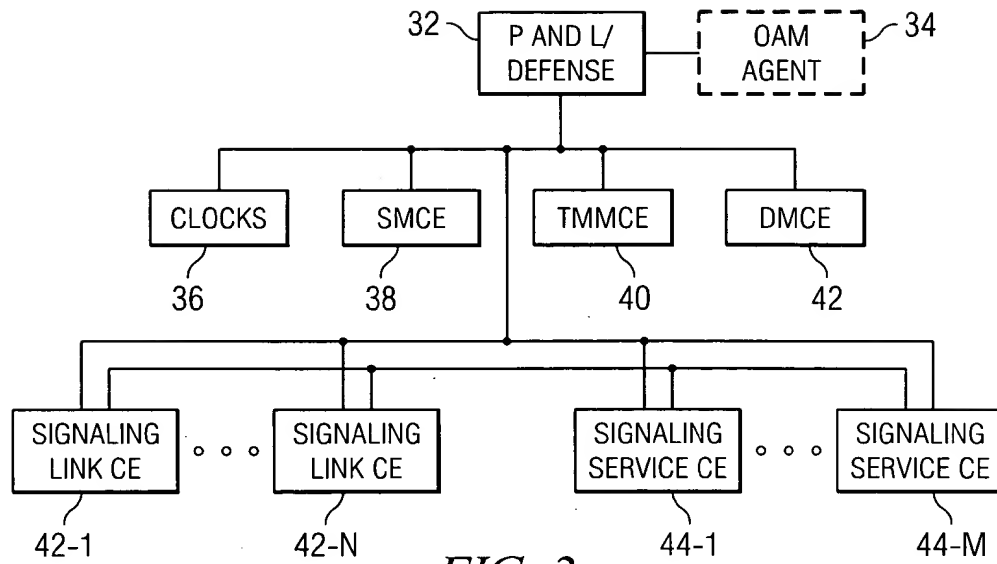


FIG. 2

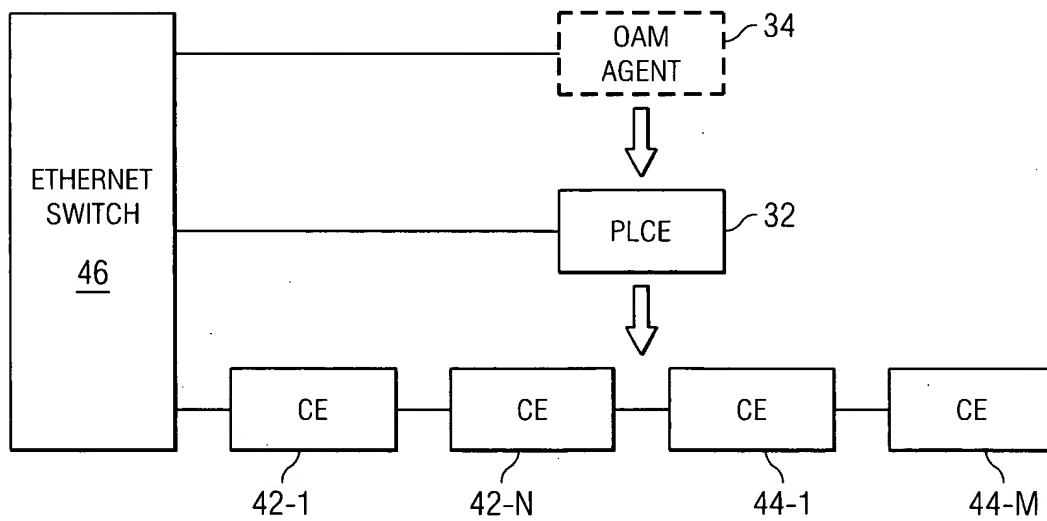


FIG. 3

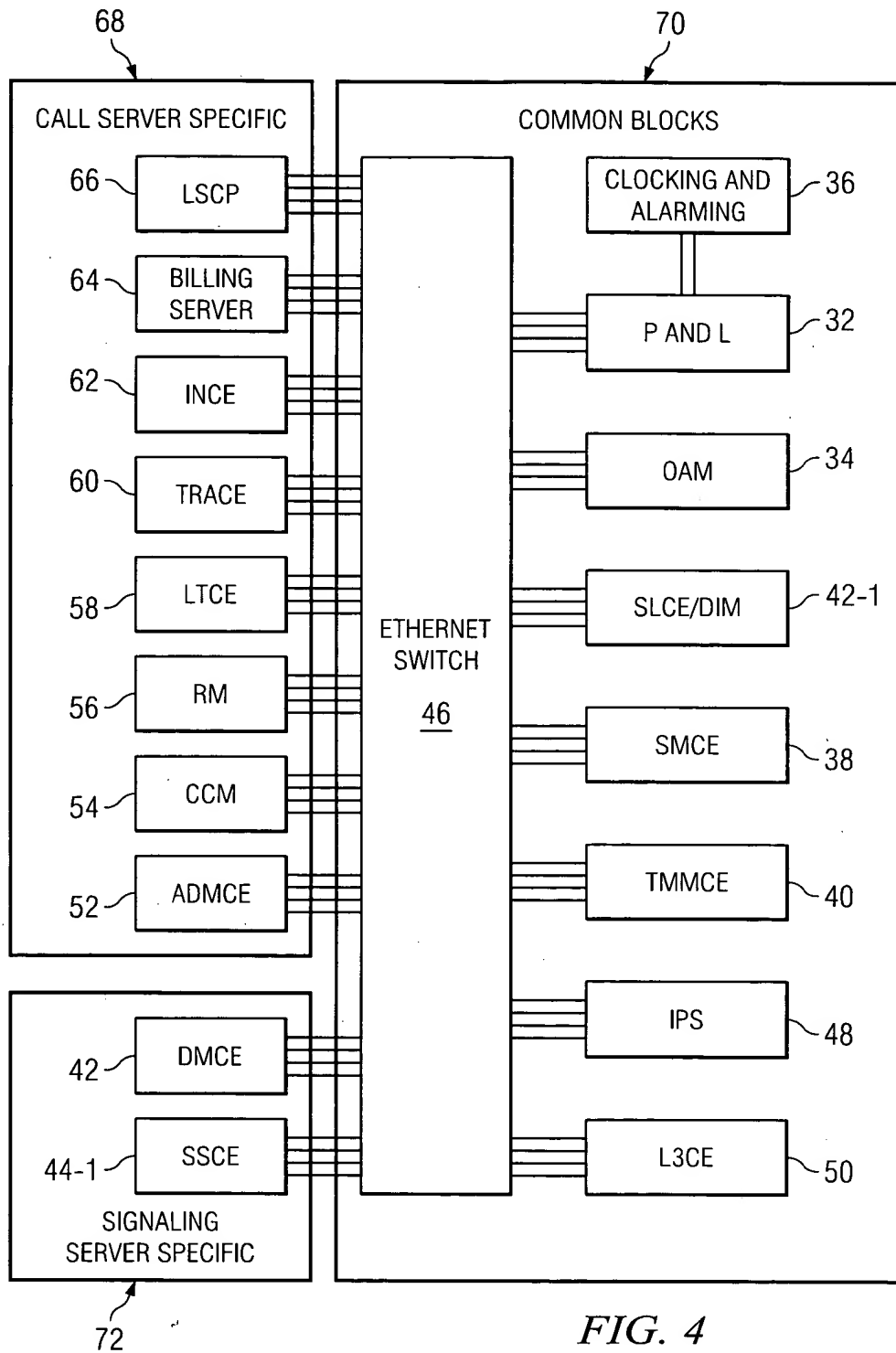
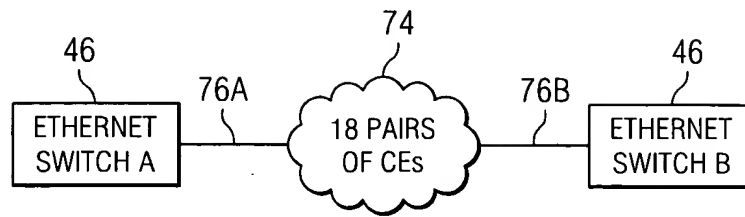
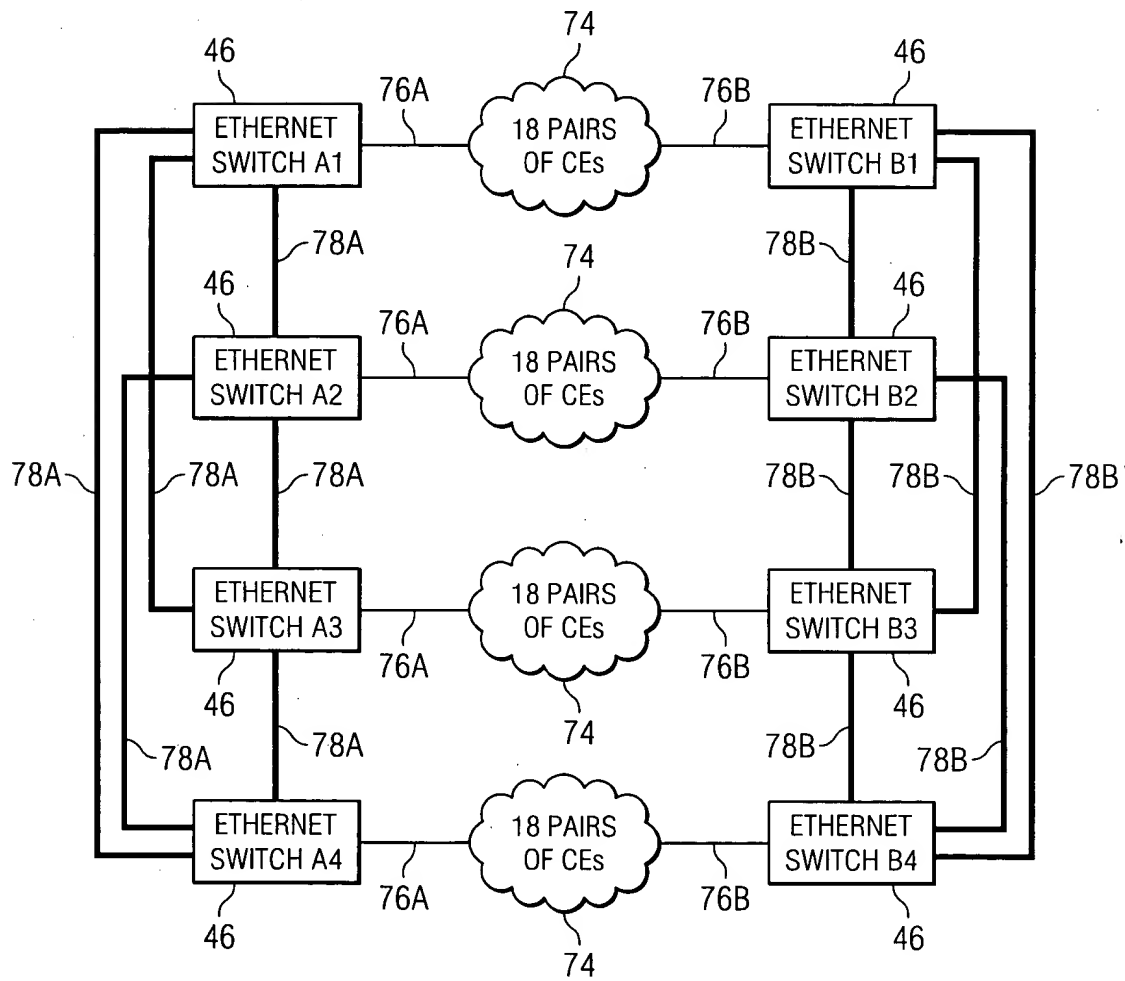


FIG. 4

*FIG. 5A**FIG. 5B*

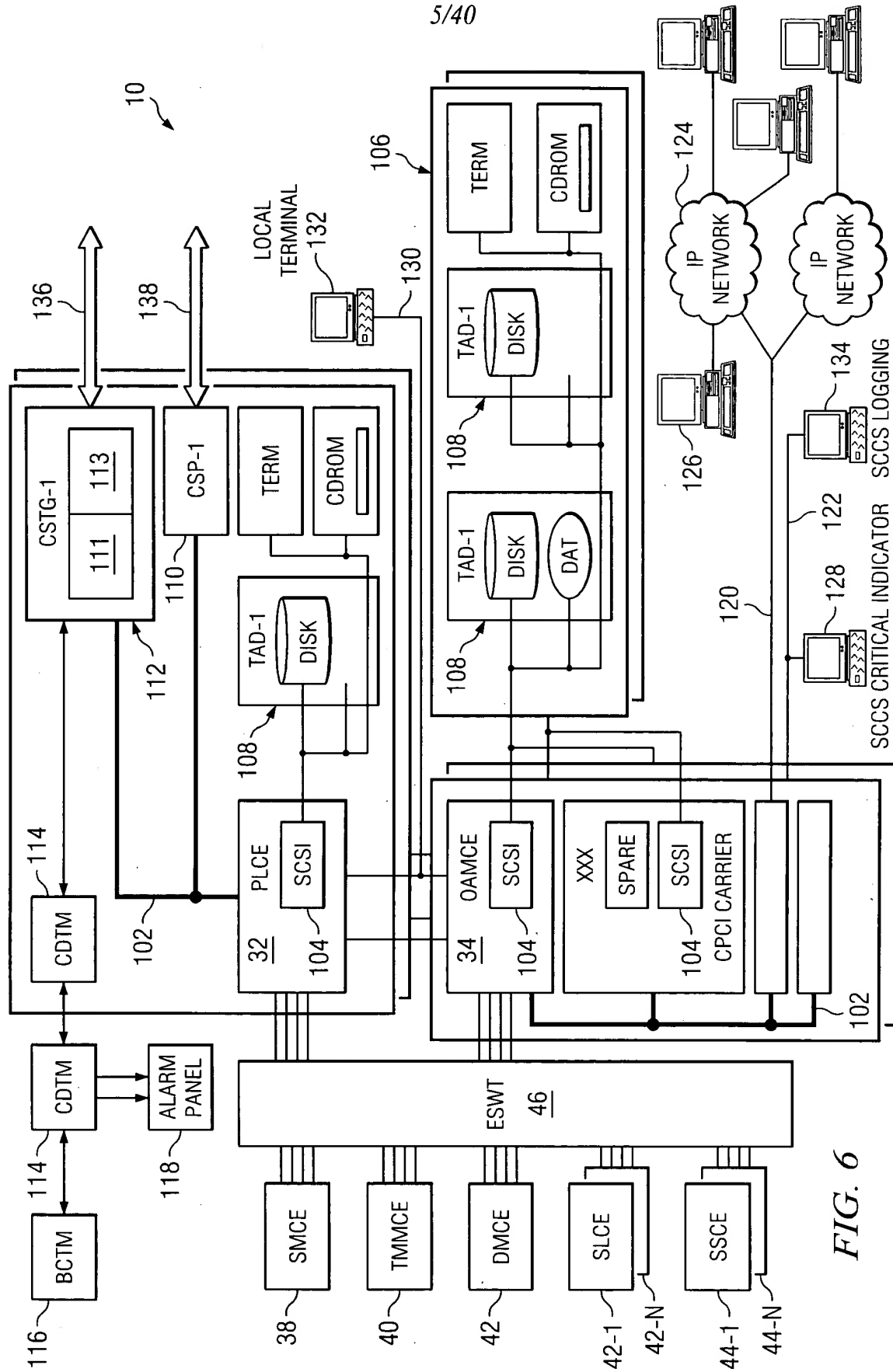


FIG. 6

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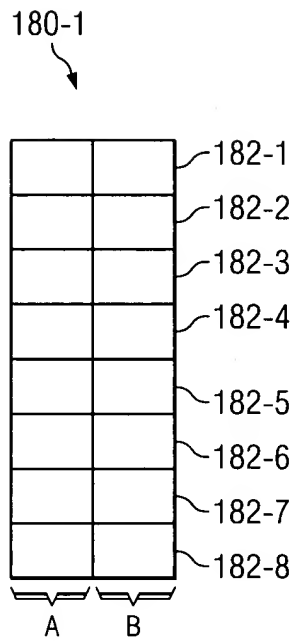


FIG. 7

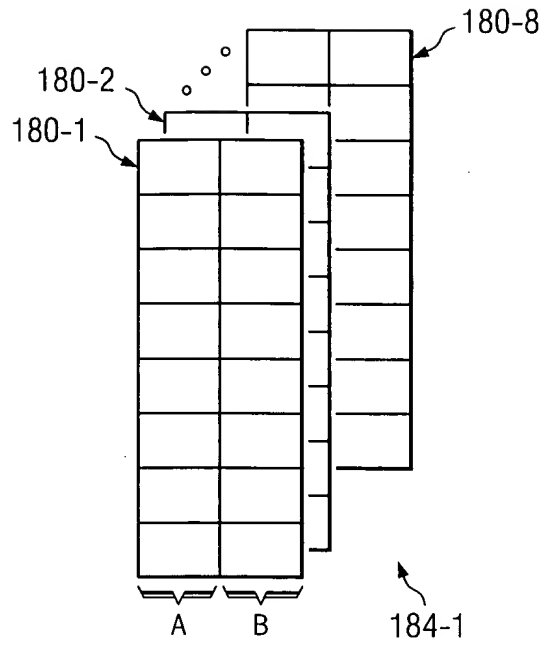


FIG. 8

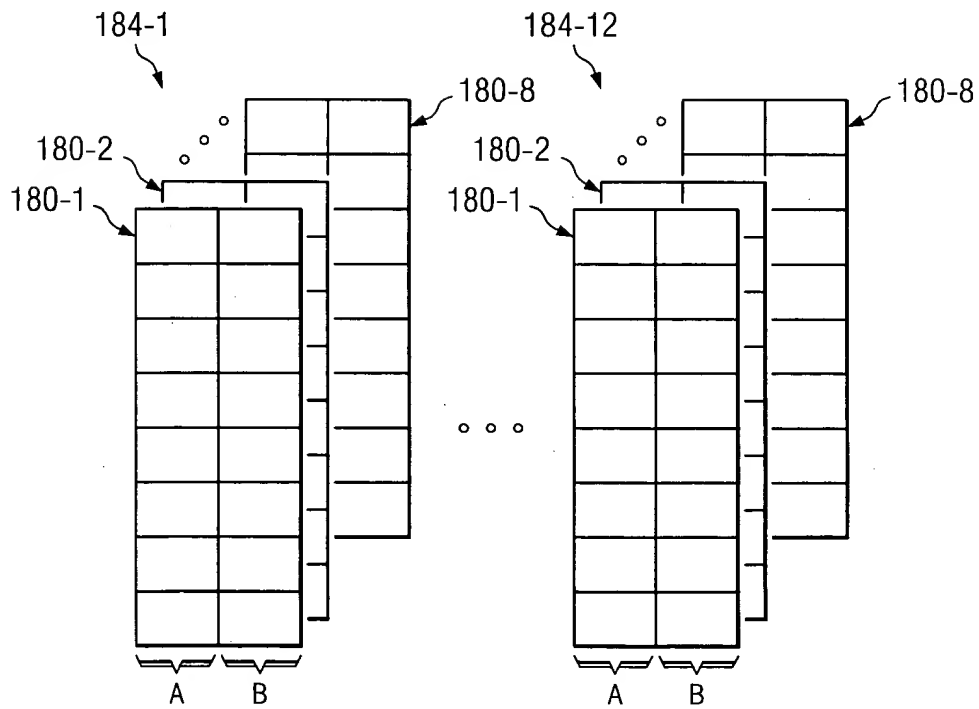


FIG. 9

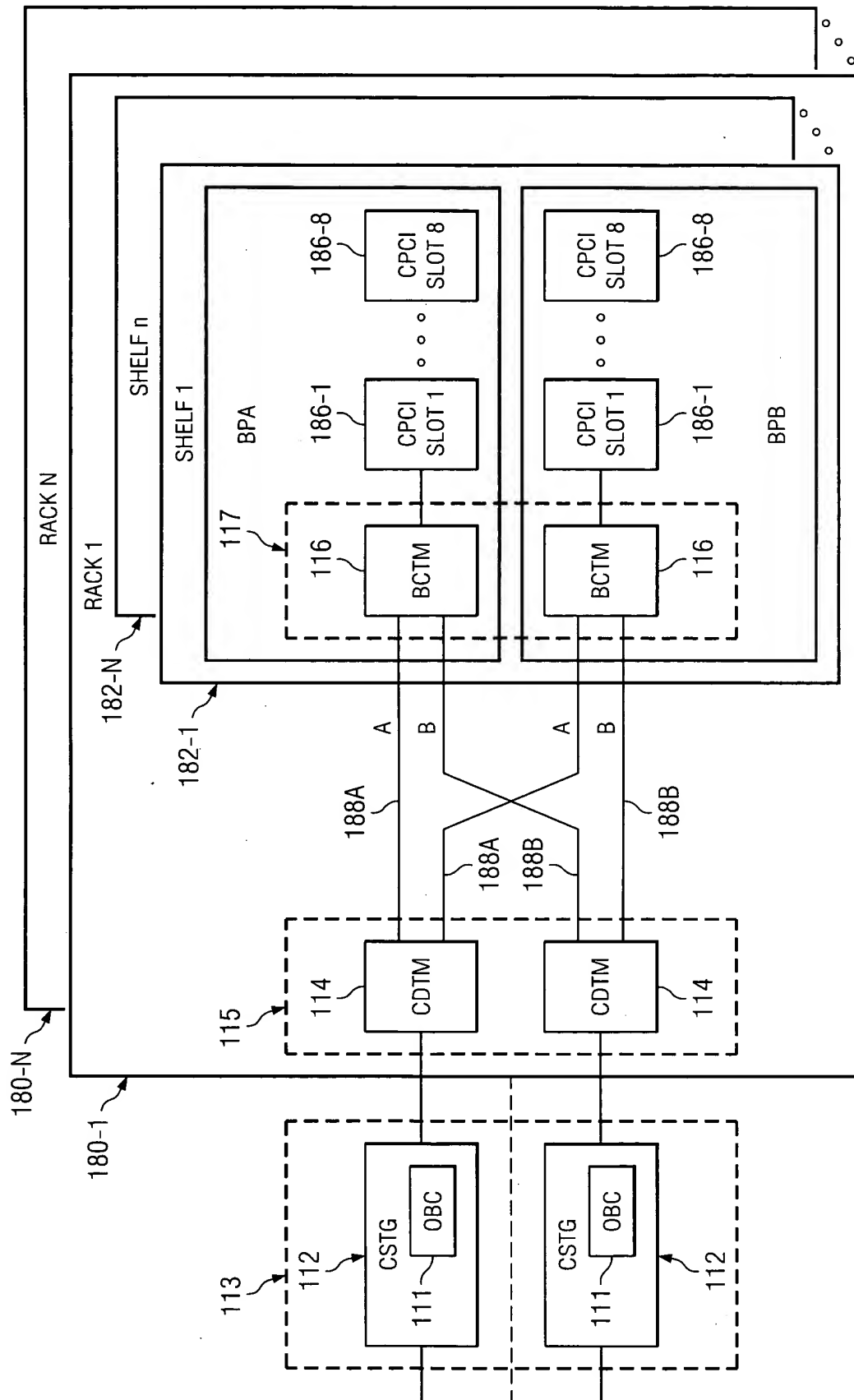


FIG. 10A

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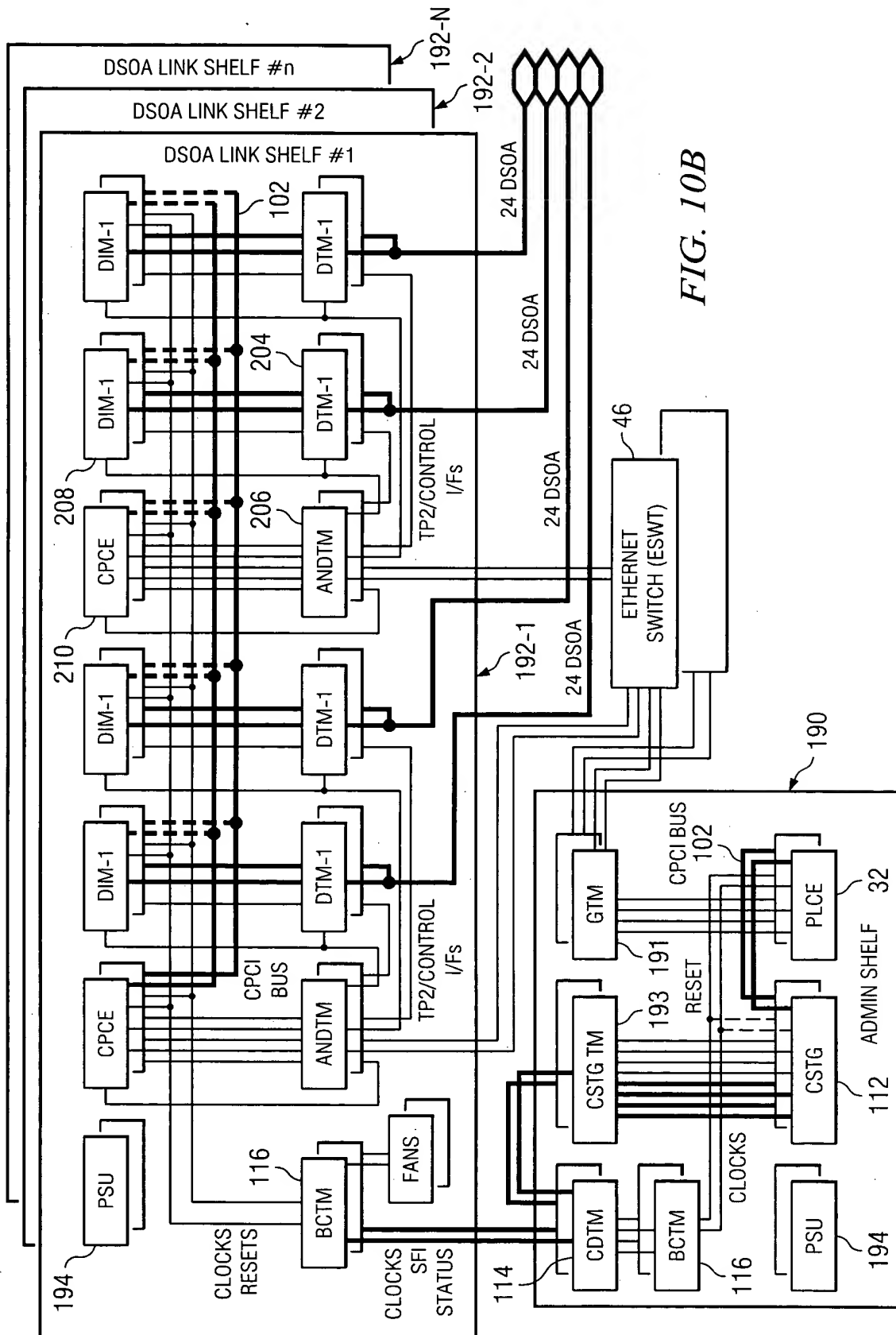
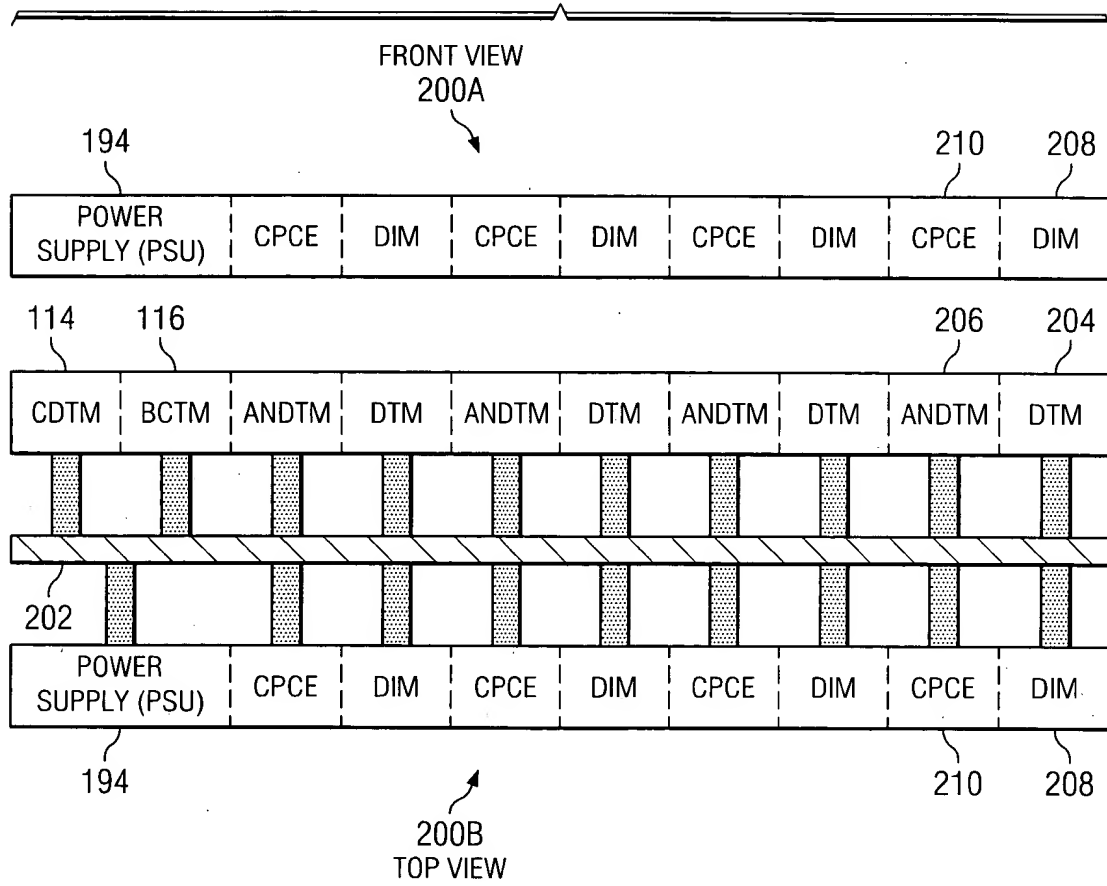


FIG. 10B

FIG. 10C

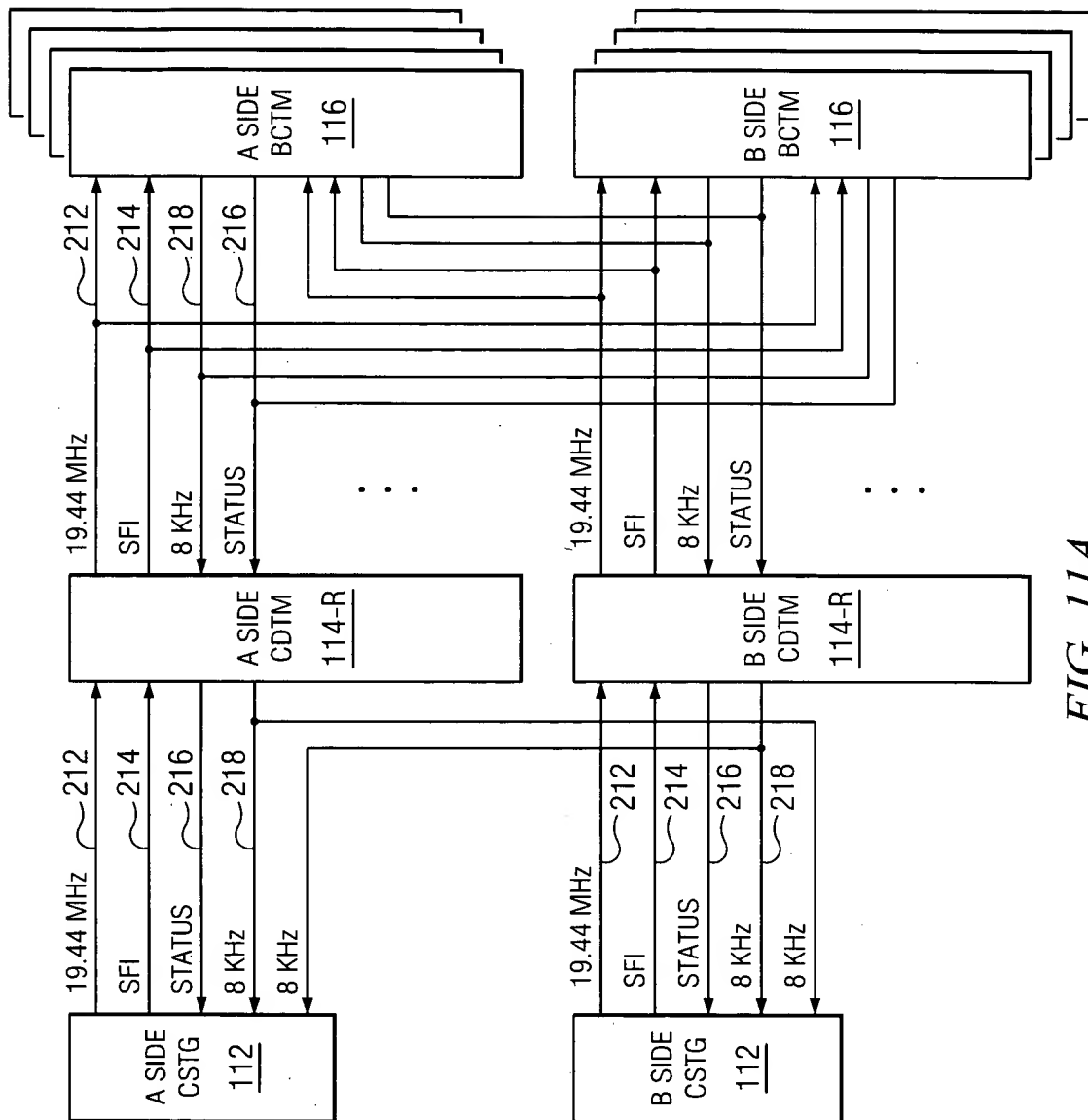


FIG. 11A

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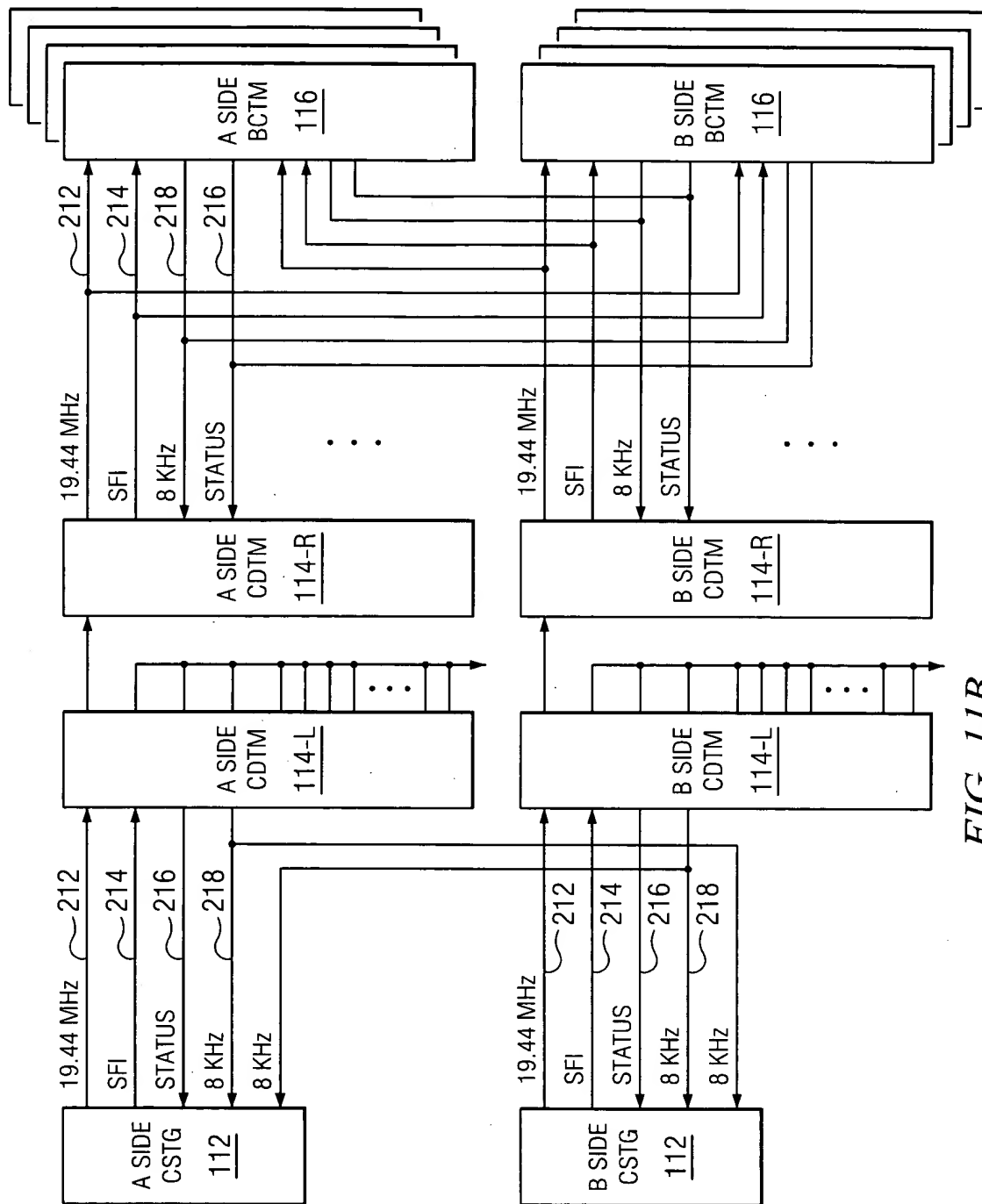


FIG. 11B

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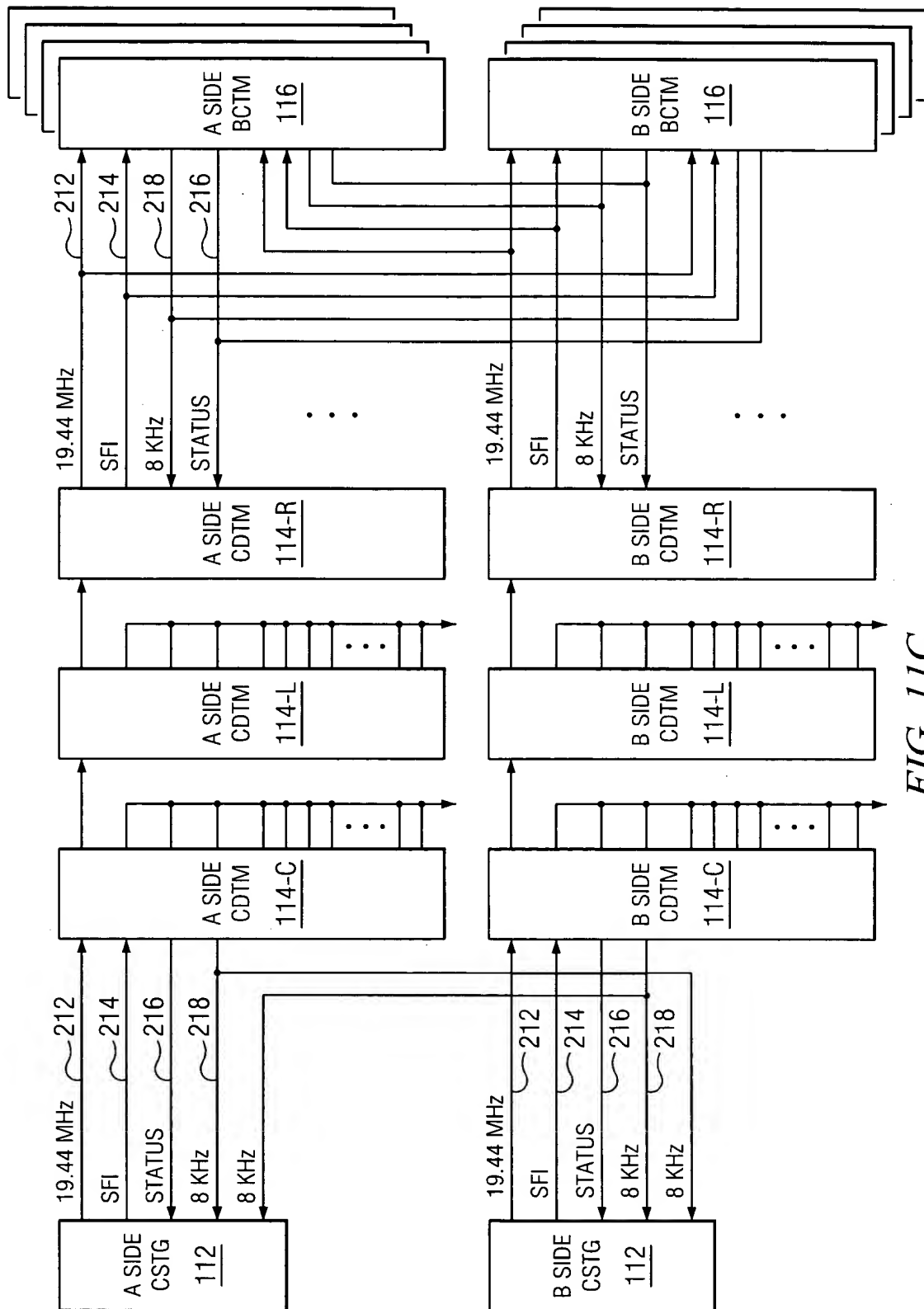


FIG. 11C

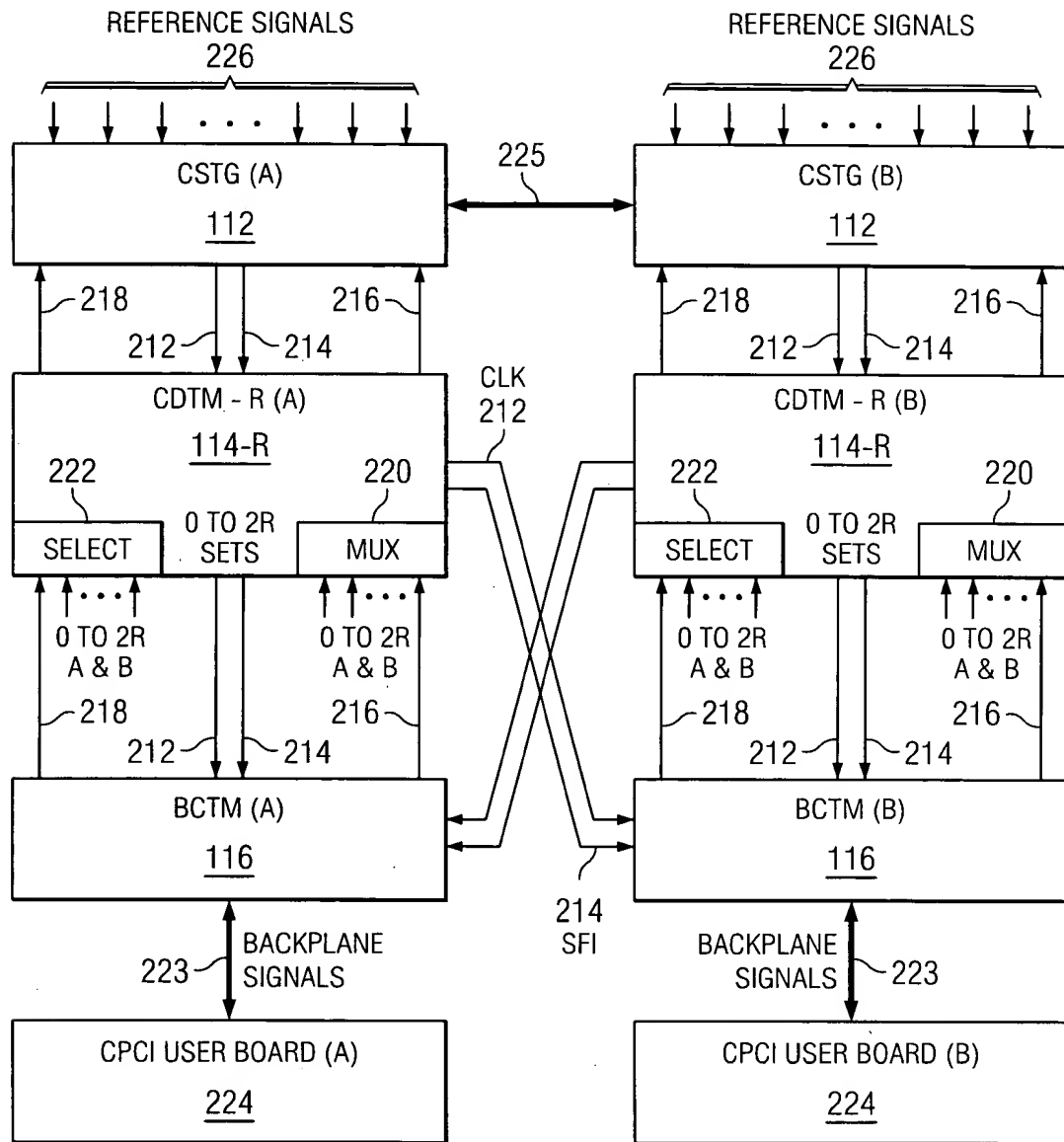


FIG. 12A

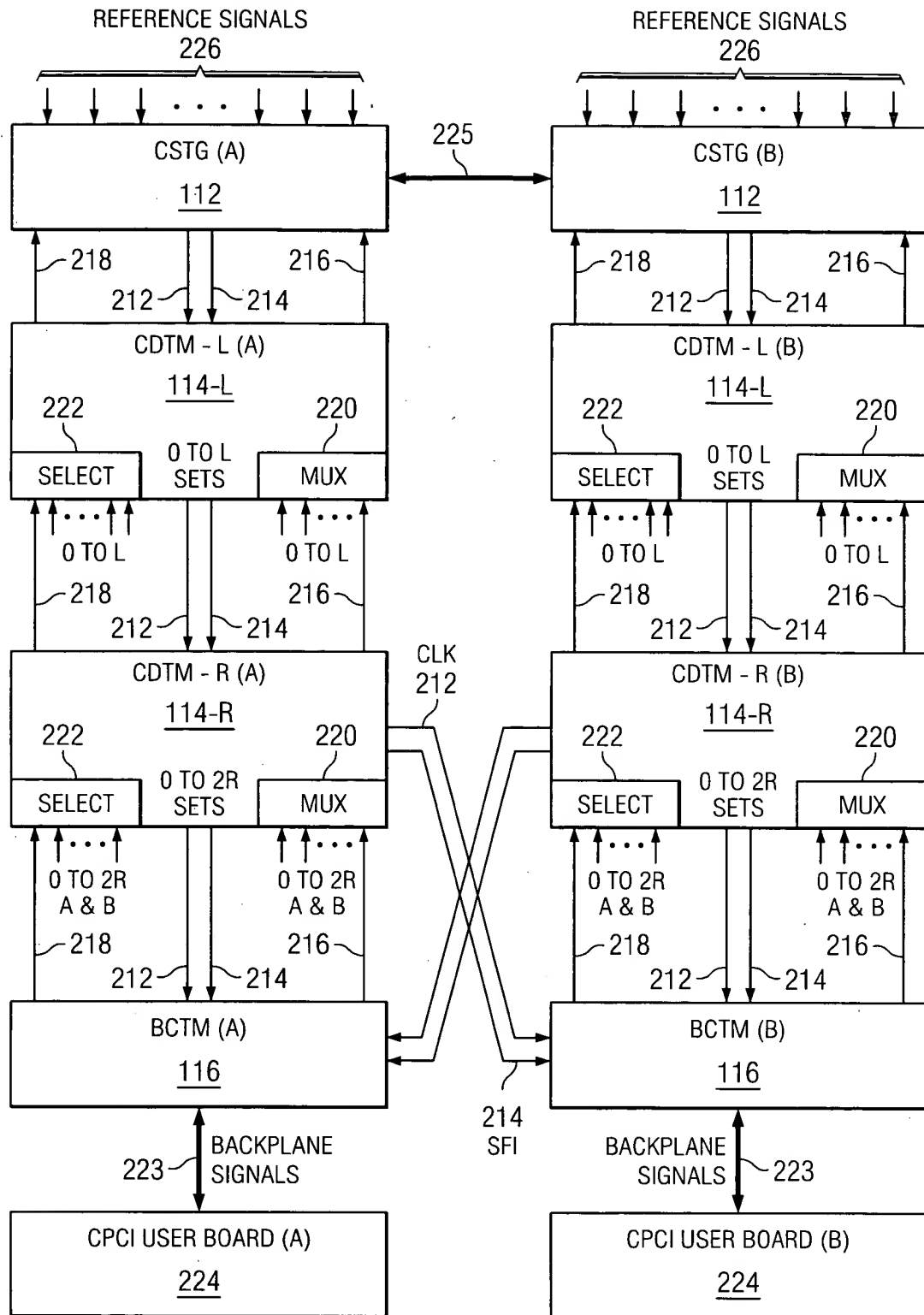


FIG. 12B

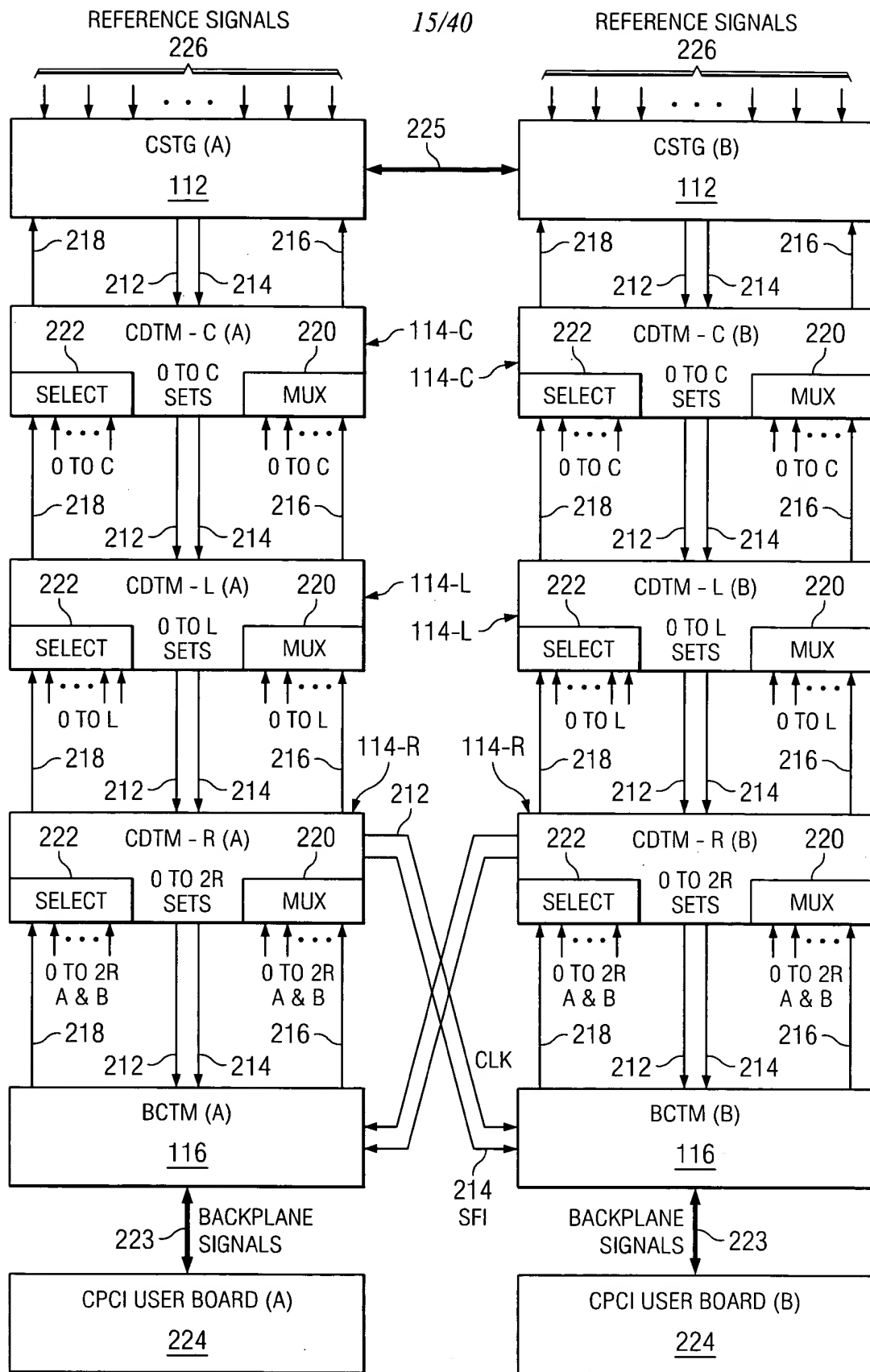


FIG. 12C

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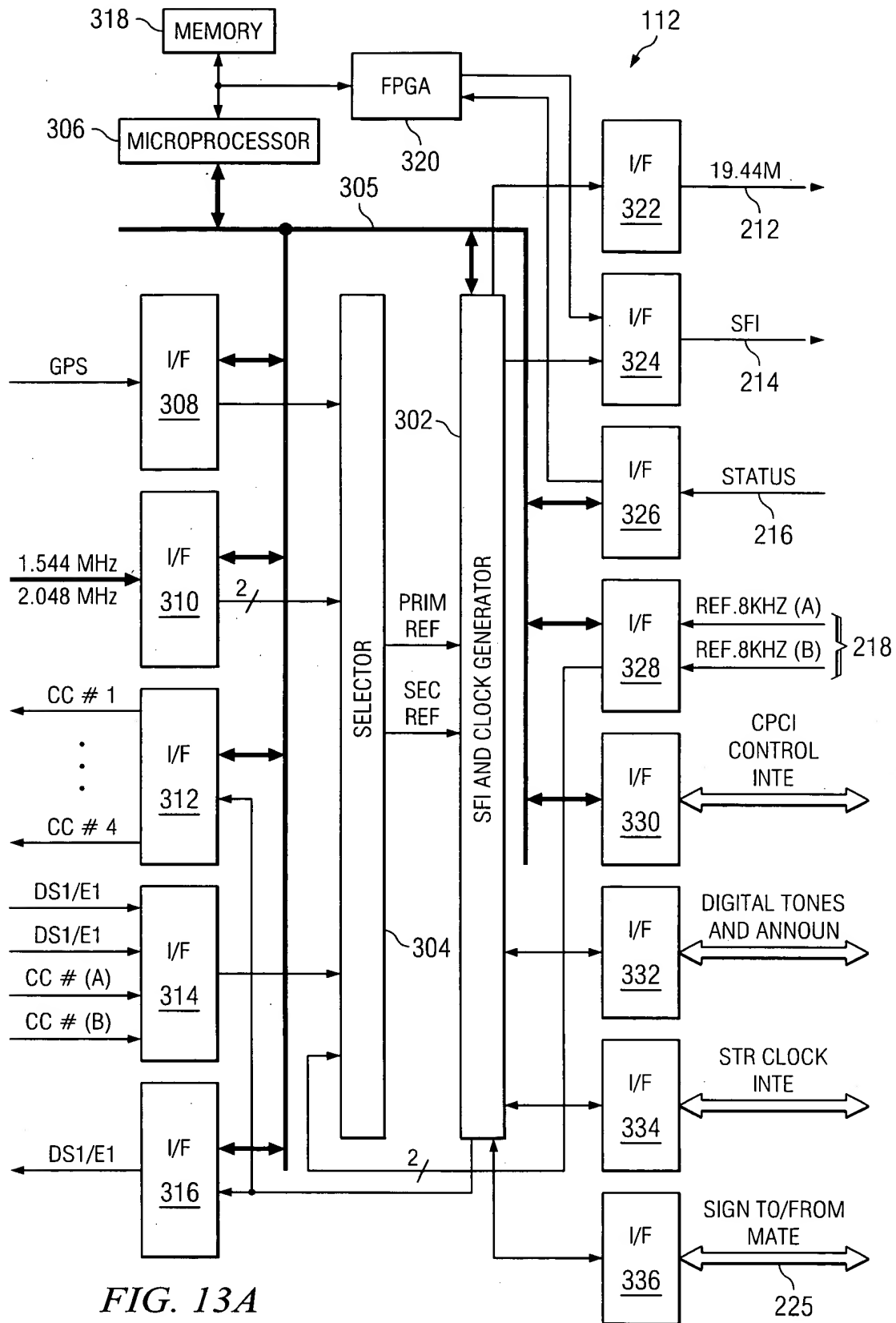


FIG. 13A

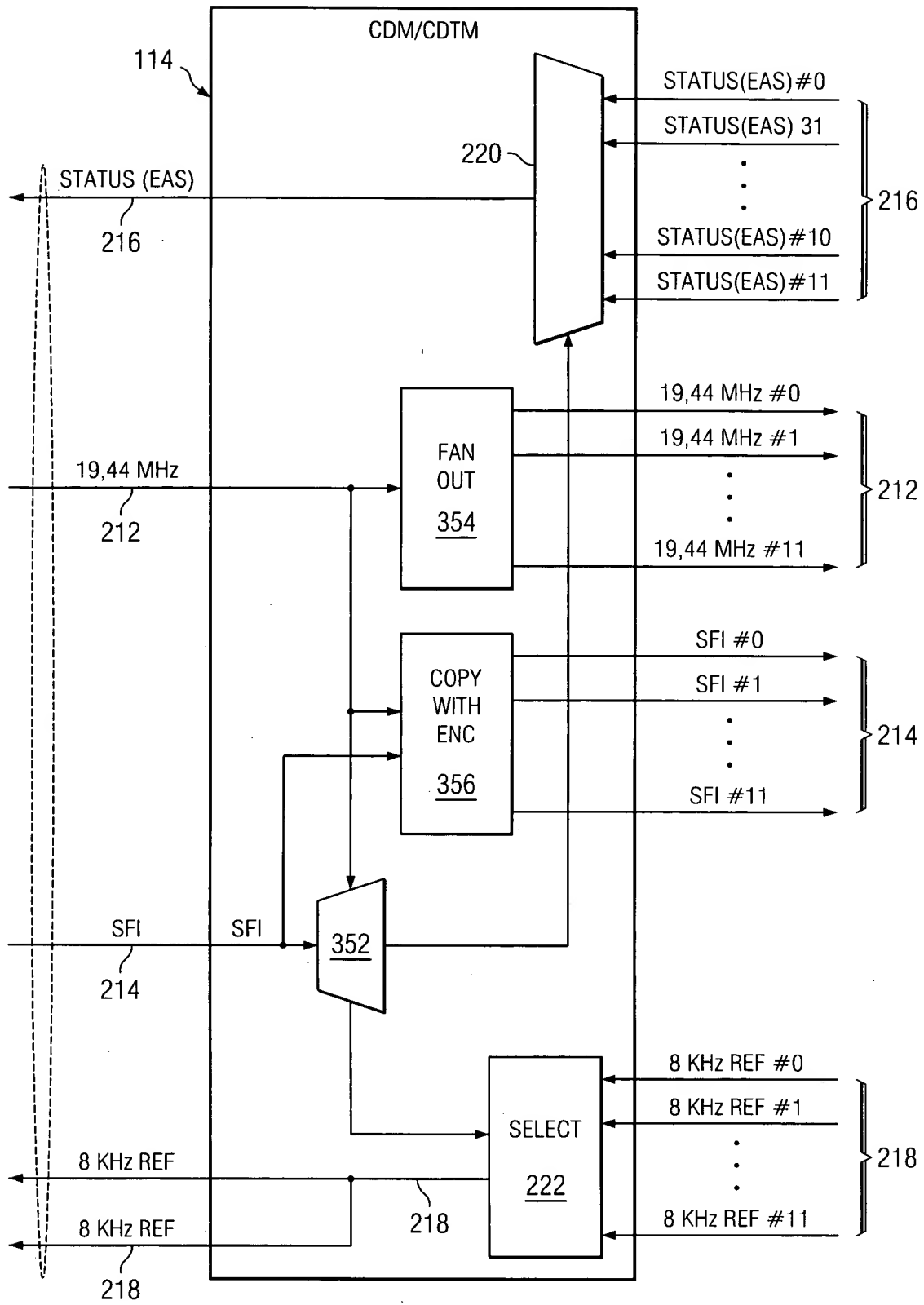
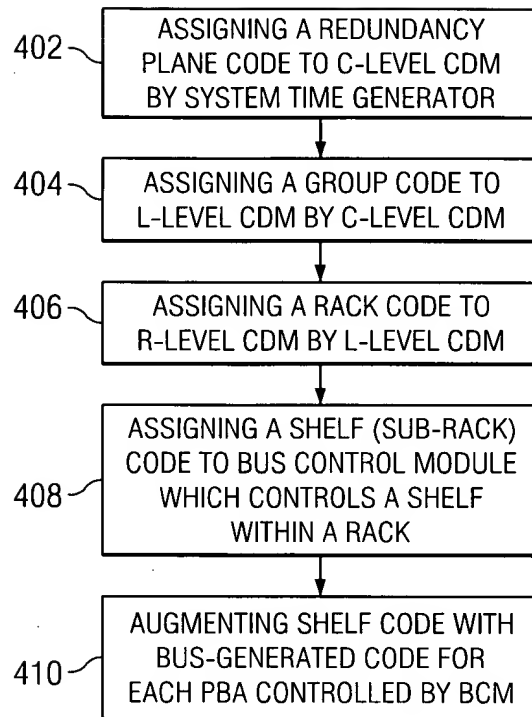


FIG. 14

FIG. 15

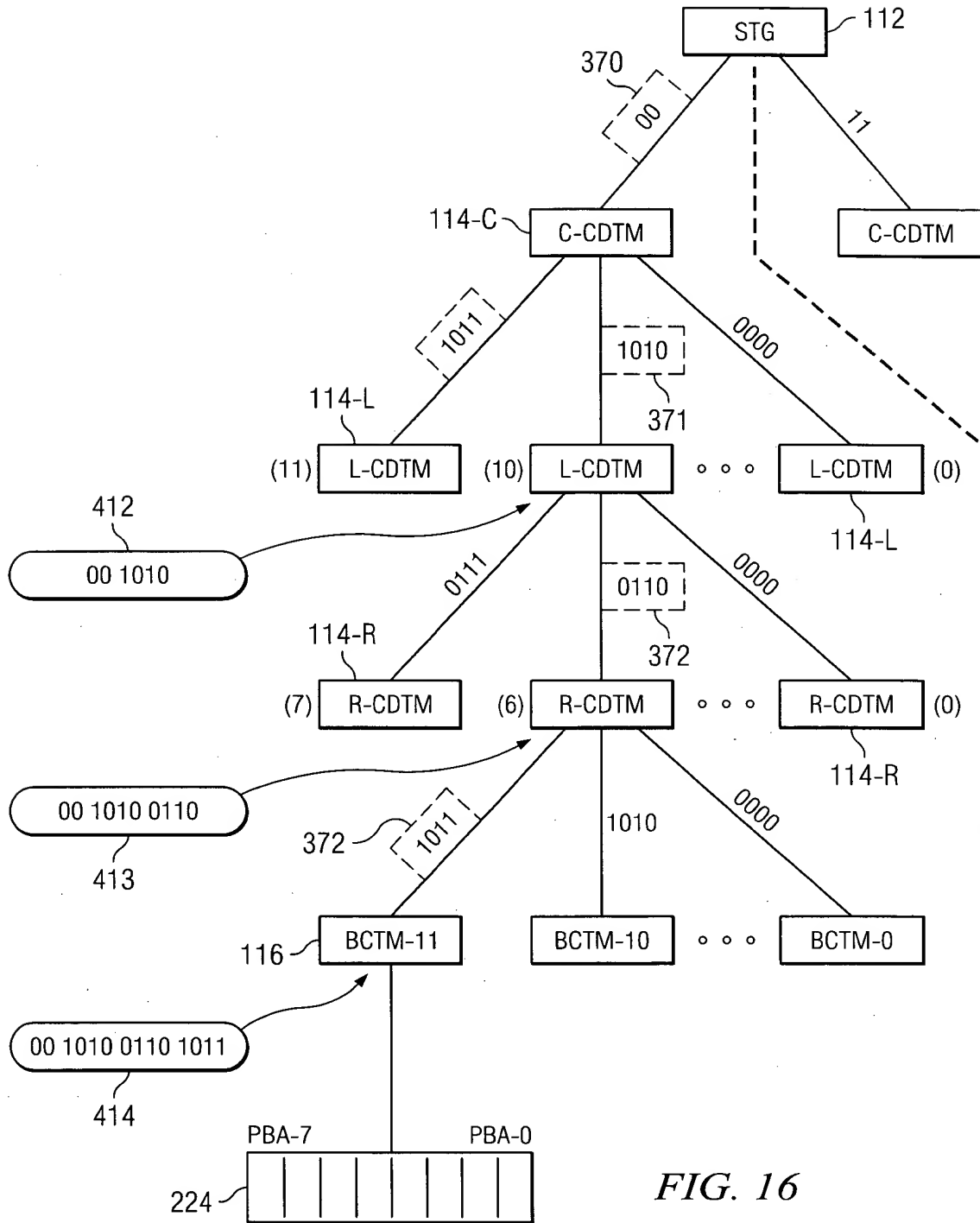


FIG. 17A

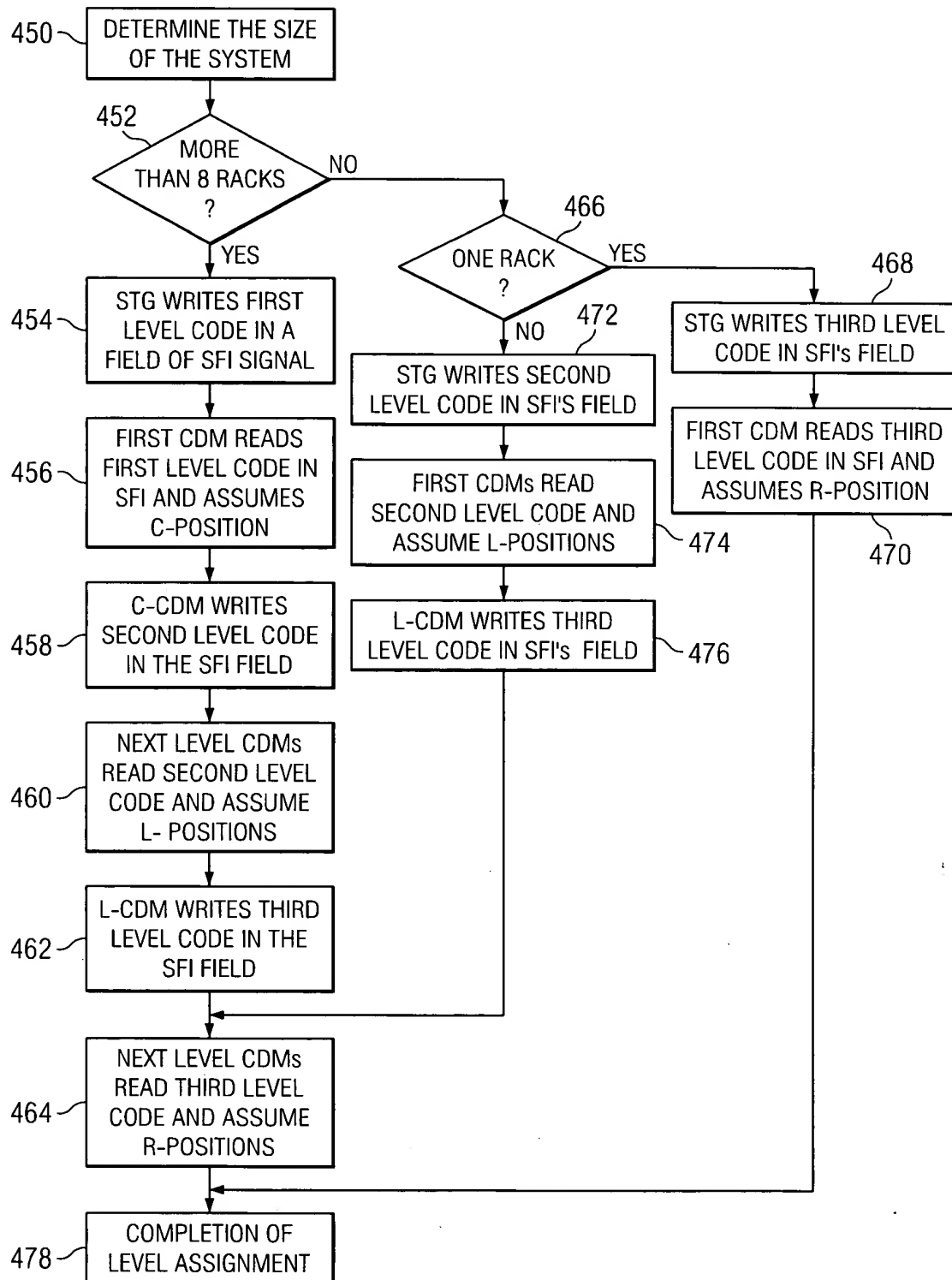


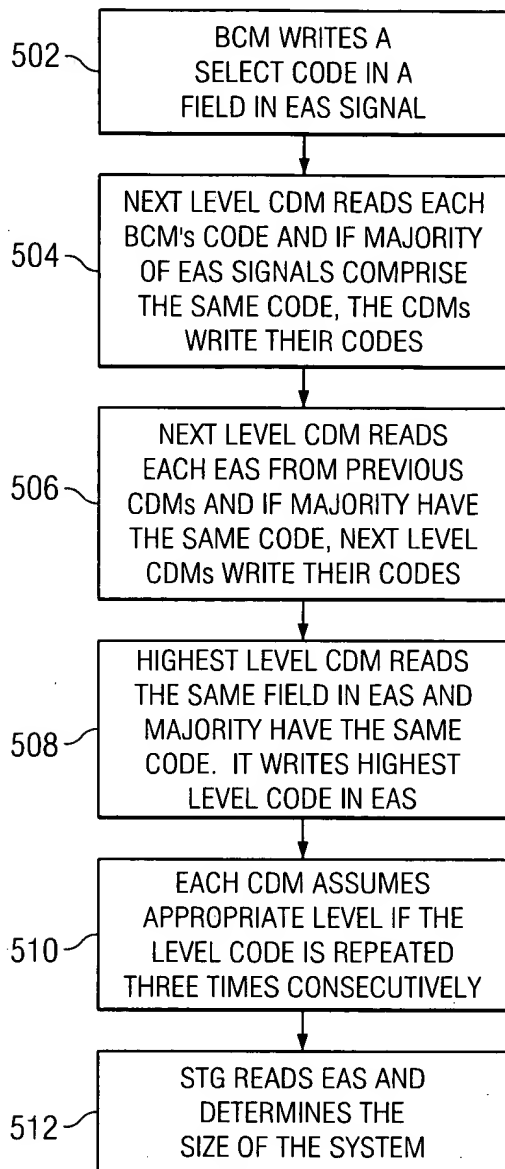
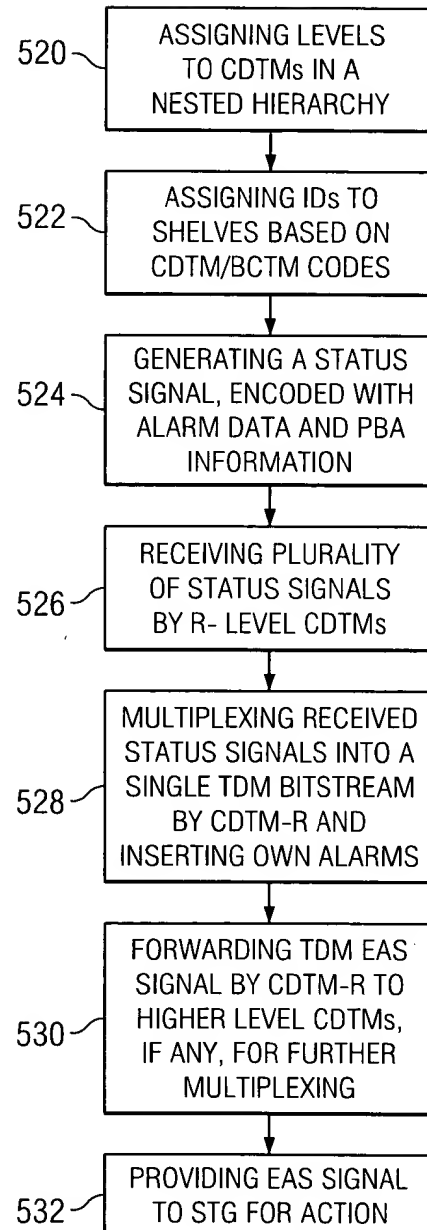
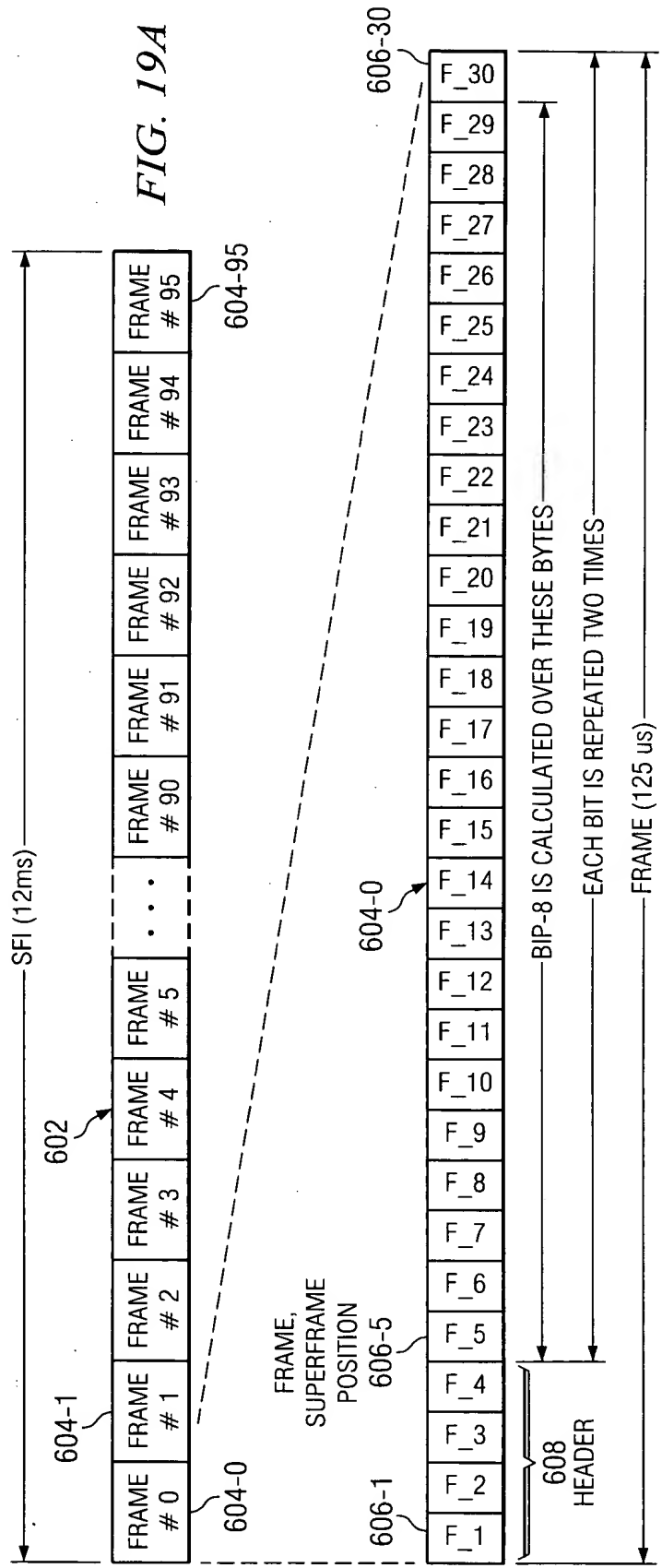
FIG. 17B*FIG. 18*

FIG. 19A



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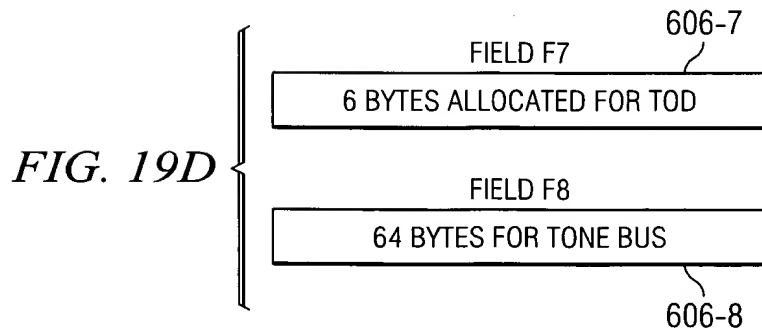
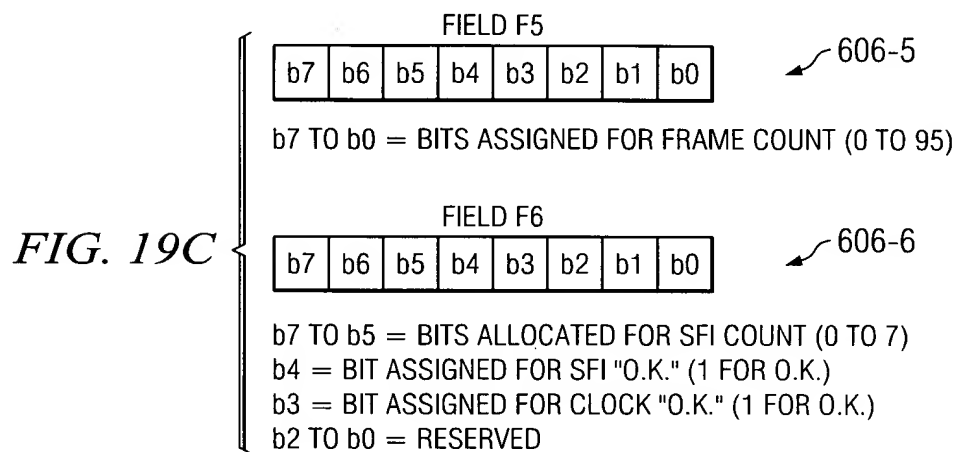
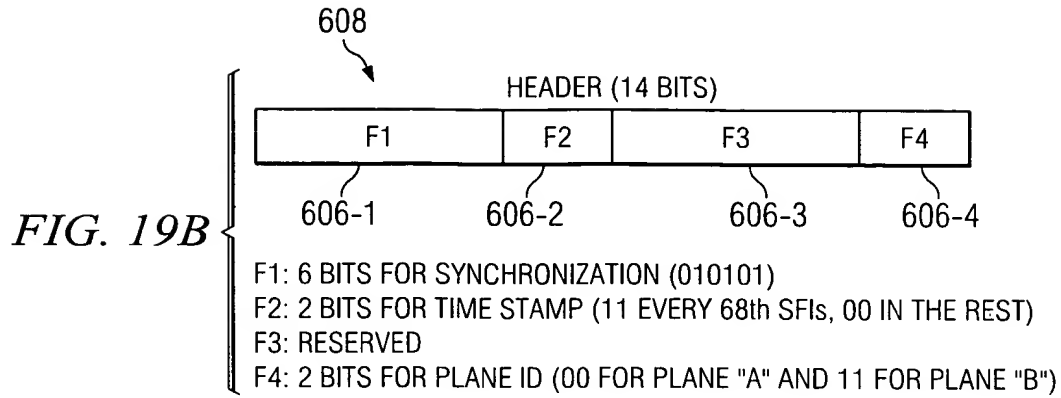


FIG. 19E

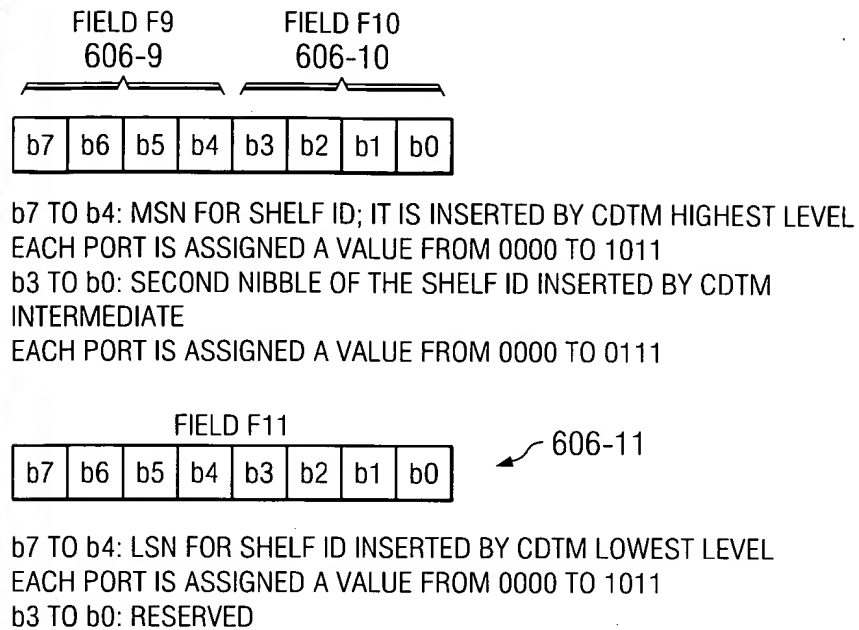


FIG. 19F

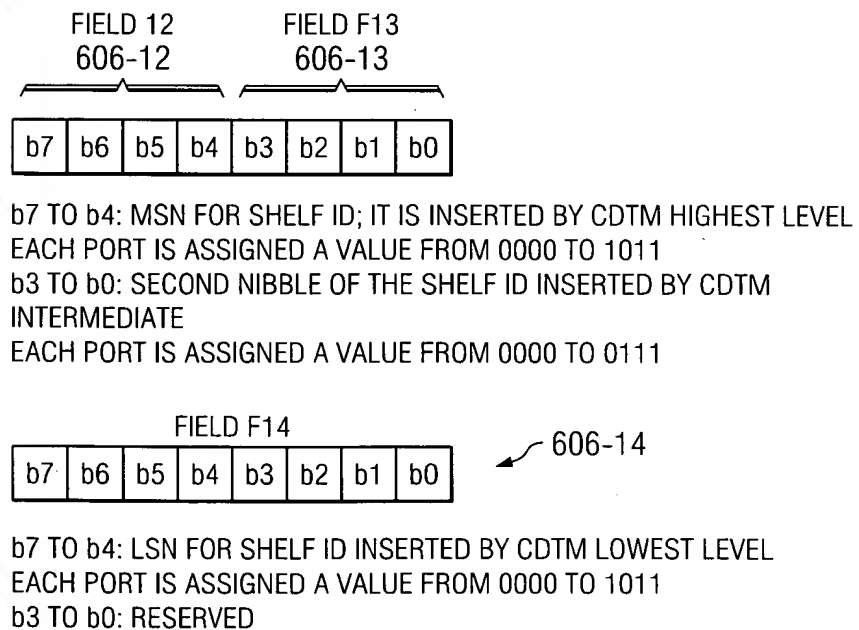


FIG. 19G

FIELD #15 (F15)

b7	b6	b5	b4	b3	b2	b1	b0
----	----	----	----	----	----	----	----

606-15

b7: INDICATE THAT A CLOCK IS SELECTED BY THE CDTM HIGHEST LEVEL
 b7 = 0 (NO CLOCK SELECTED)
 b7 = 1 (ONE OF 12 CLOCKS SELECTED)
 b6 TO b3: THE CODE OF THE PORT SELECTED (0000 TO 1011)
 b2 = BIT SET TO FORCE THE ALARMS
 b1, b0 = RESERVED

FIG. 19H

FIELD #16 (F16)

b7	b6	b5	b4	b3	b2	b1	b0
----	----	----	----	----	----	----	----

606-16

b7: INDICATE THAT A CLOCK IS SELECTED BY THE CDTM MIDDLE LEVEL
 b7 = 0 (NO CLOCK SELECTED)
 b7 = 1 (ONE OF 8 CLOCKS SELECTED)
 b6 TO b3: THE CODE OF THE PORT SELECTED (0000 TO 0111)
 b2 = BIT SET TO FORCE THE ALARMS
 b1, b0 = RESERVED

FIG. 19I

FIELD #17 (F17)

b7	b6	b5	b4	b3	b2	b1	b0
----	----	----	----	----	----	----	----

606-17

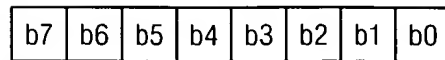
b7: INDICATE THAT A CLOCK IS SELECTED BY THE CDTM LOWEST LEVEL
 b7 = 0 (NO CLOCK SELECTED)
 b7 = 1 (ONE OF 12 CLOCKS SELECTED)
 b6 TO b3: THE CODE OF THE PORT SELECTED (0000 TO 1011)
 b2 = BIT SET TO FORCE THE ALARMS
 b1, b0 = RESERVED

FIG. 19J

FIELD #F18 TO #F27

606-18 TO 606-27

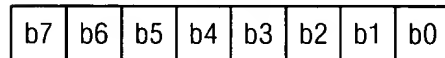
BYTE #1



609-1

b7 = 1 RESET SLOT #0	b3 = 1 RESET SLOT #4
b6 = 1 RESET SLOT #1	b2 = 1 RESET SLOT #5
b5 = 1 RESET SLOT #2	b1 = 1 RESET SLOT #6
b4 = 1 RESET SLOT #3	b0 = 1 RESET SLOT #7

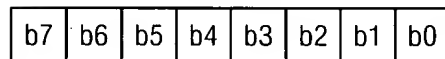
BYTE #2



609-2

b7 = 1 RESET BCTM	b3 = BIT SET TO LOOP BACK 8 KHz
b6 = 1 RESET ESWT#1	b2 = I1
b5 = 1 RESET ESWT#2	b1 = I2
b4 = 1 RESET RESERVED	b0 = I3

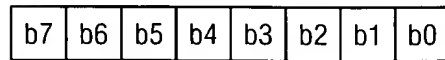
BYTE #3



609-3

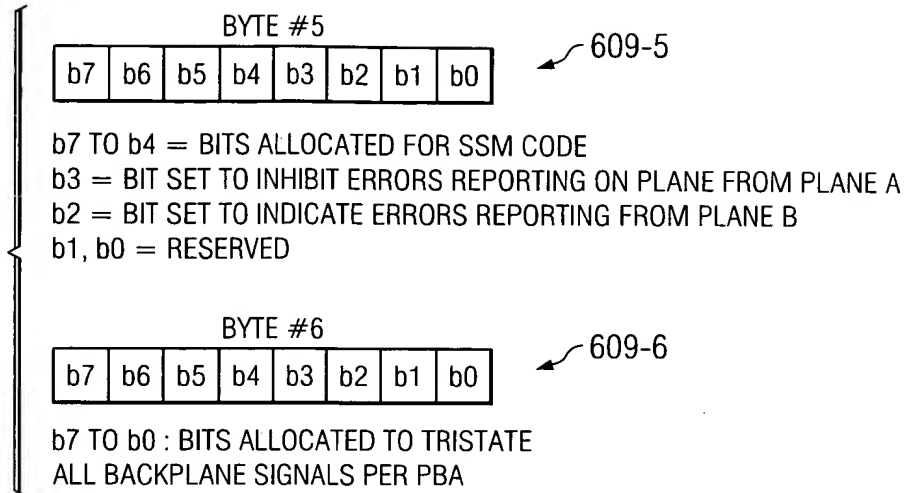
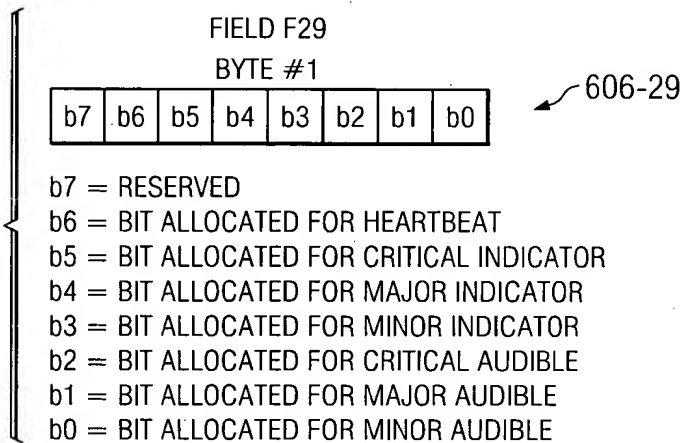
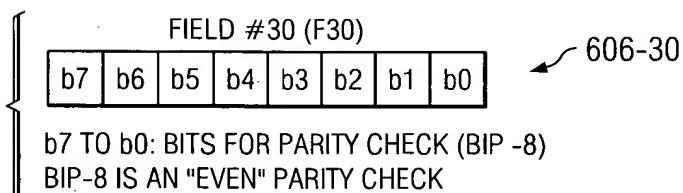
b7 = PWR DOWN SLOT #0	b3 = PWR DOWN SLOT #4
b6 = PWR DOWN SLOT #1	b2 = PWR DOWN SLOT #5
b5 = PWR DOWN SLOT #2	b1 = PWR DOWN SLOT #6
b4 = PWR DOWN SLOT #3	b0 = PWR DOWN SLOT #7

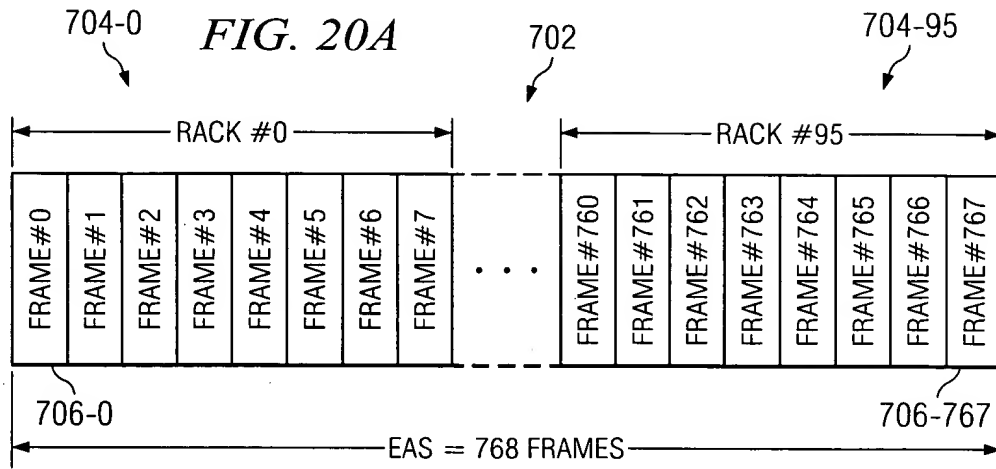
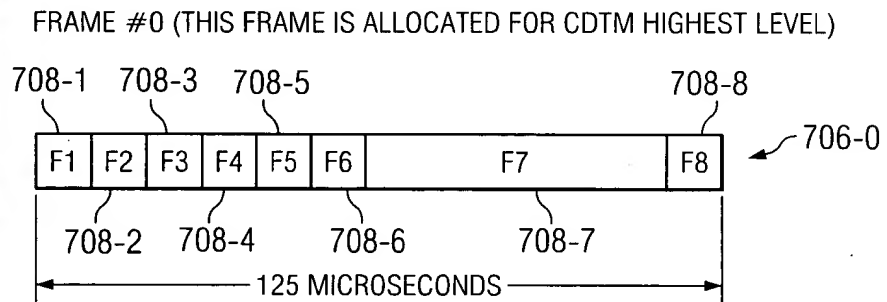
BYTE #4



609-4

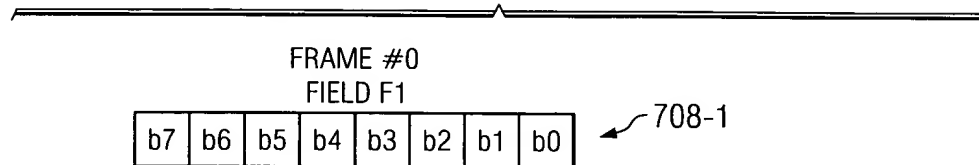
b7 = 1: CLOCK SELECTED BY BCTM	b3, b2 = PLANE SELECTION (A OR B)
b6 TO b4: THE CODE OF SELECTED CLOCK (000 TO 111)	b1 = TURN ON/OFF RACK ALARM
	b0 = 1: FORCE SHELF ALARMS

FIG. 19K*FIG. 19L**FIG. 19M*

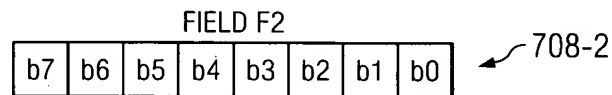
**FIG. 20B**

- F1 = 1 BYTE ALLOCATED FOR ALIGNMENT PATTERN
- F2 = 1 BYTE ALLOCATED FOR MISC SIGNALS
- F3 = 2 BYTES ALLOCATED FOR STATUS LOA
- F4 = 2 BYTES ALLOCATED FOR INBOUND ERRORS (ONE BIT PER PORT)
- F5 = 1 BYTE ALLOCATED FOR CLOCK SELECTION
- F6 = 4 BITS ALLOCATED FOR BIP-4
- F7 = 7.5 BYTES RESERVED
- F8 = 1.5 BITS EMPTY FIELD (FORCED TO "0")

NOTE: ALL FRAMES # N x 64 (N = 1 TO 11) ARE EMPTY

FIG. 20C

b7 TO b0 = "00111100" : PATTERN GENERATED BY EACH CDTM AND BCTM CARDS



b7, b6 = RESERVED

b5 = BIT SET WHEN OUTBOUND SFI ERRORS ARE DETECTED

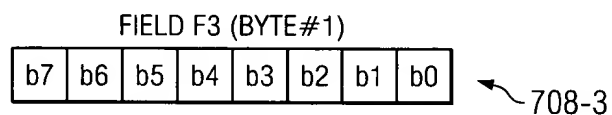
NOTE:OUTBOUND ERRORS:"TWO BITS VIOLATIONS" OR BIP-8 ONLY FOR FRAME #0 OF THE SFI

b4 = BIT SET WHEN ONE OF THE STATUS SIGNAL IS IN LOS (EXCEPT FOR THE UNUSED PORTS)

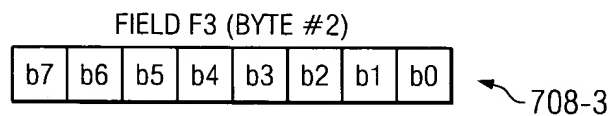
b3 = BIT SET WHEN THE SELECTED 8KHz IS IN LOC

b2, b1 = BIT ASSIGNED TO INDICATE THE LEVEL OF THE CDTM (11 FOR L1, 10 FOR L2 AND 01 FOR L3)

b0 = BIT ASSIGNED TO INDICATE THE PLANE (0 FOR A AND 1 FOR B)



b7 TO b0 = BITS ASSIGNED TO INDICATE STATUS LOA PORTS #0 TO 7

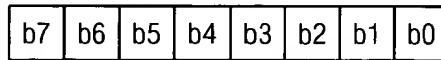


b3 TO b0 = BITS ASSIGNED FOR STATUS LOA #8 TO 12

b7 TO b4 = BITS ALLOCATED FOR CDTM LEVEL ASSIGNMENT

FIG. 20D

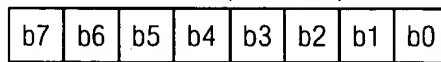
FIELD F4 (BYTE #1)



708-4

b7 TO b0 = BITS ASSIGNED TO INDICATE STATUS LOS ON PORTS #0 TO 7

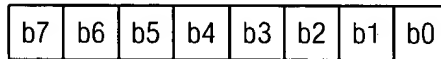
FIELD F4 (BYTE #2)



708-4

b7 TO b0 = BITS ASSIGNED TO INDICATE STATUS LOS ON PORTS #8 TO 12

FIELD F5



708-5

b7 = BIT SET WHEN AN 8 KHz INPUT WAS SELECTED

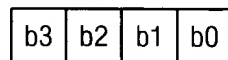
b6, b5, b4, b3 = BITS ASSIGNED TO INDICATE WHICH 8KHz PORT WAS SELECTED

b2 = BIT SET WHEN A FORCED ALARM BIT WAS RECEIVED

b1 = BIT ASSERTED BY CDTM HIGHEST LEVEL TO INDICATE THAT A SYSTEM ALARM HAS OCCURED IN THE PREVIOUS EAS

b0 = ASSERTED BY CSTG IF A BIP-4 ERROR WAS DETECTED

FIELD F6



708-6

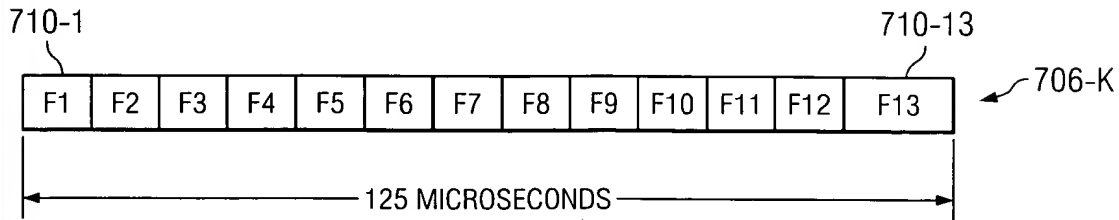
b3 TO b0 = BITS ASSIGNED FOR BIP-4.

FIG. 20E

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FRAME #1 + 64 x N (N = 0 TO 11) : THESE FRAMES
ARE ALLOCATED FOR CDTM MIDDLE LEVEL

FRAME #1 + 8 x N (N = 0 TO 95) : THESE FRAMES
ARE ALLOCATED FOR CDTM LOWEST LEVEL



CDTM MIDDLE LEVEL

F1 = 1 BYTE ALLOCATED FOR MISC SIGNALS

F2 = 1 BYTE FOR CARD ID

F3 = 2 BYTES ALLOCATED FOR STATUS LOA

F4 = 2 BYTES ALLOCATED FOR INBOUND ERRORS (ONE BIT PER PORT)

F5 = 1 BYTE ALLOCATED FOR CLOCK SELECTION

F6 = 4 BYTES ALLOCATED FOR BIP-4

CDTM LOWEST LEVEL

F7 = 1 BYTE ALLOCATED FOR MISC SIGNALS

F8 = 1 BYTE FOR CARD ID

F9 = 2 BYTES ALLOCATED FOR STATUS LOA

F10 = 2 BYTES ALLOCATED FOR INBOUND ERRORS

F11 = 1 BYTE ALLOCATED FOR CLOCK SELECTION

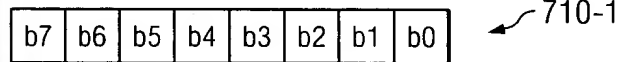
F12 = 4 BITS ALLOCATED FOR BIP-4

F13 = 1.5 BITS EMPTY FIELD (FORCED TO "0")

FIG. 20F

FRAME #1 + 64 x N (N = 0 TO 11) : THESE FRAMES
ARE ALLOCATED FOR CDTM MIDDLE LEVEL

FIELD F1



b7 = RESERVED

b6 = RESERVED

b5 = BIT SET WHEN OUTBOUND SFI ERRORS ARE DETECTED

NOTE: OUTBOUND ERRORS: "TWO BITS VIOLATIONS" OR BIP-8 ONLY FOR FRAME #0
OF THE SFI

b4 = BIT SET WHEN ONE OF THE STATUS SIGNAL IS IN LOS (EXCEPT FOR THE
UNUSED PORTS)

b3 = BIT SET WHEN THE SELECTED 8KHz IS IN LOC

b2, b1 = BIT ASSIGNED TO INDICATE THE LEVEL OF THE CDTM (11 FOR L1, 10 FOR
L2 AND 01 FOR L3)

b0 = BIT ASSIGNED TO INDICATE THE PLANE (0 FOR A AND 1 FOR B)

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FIG. 20G

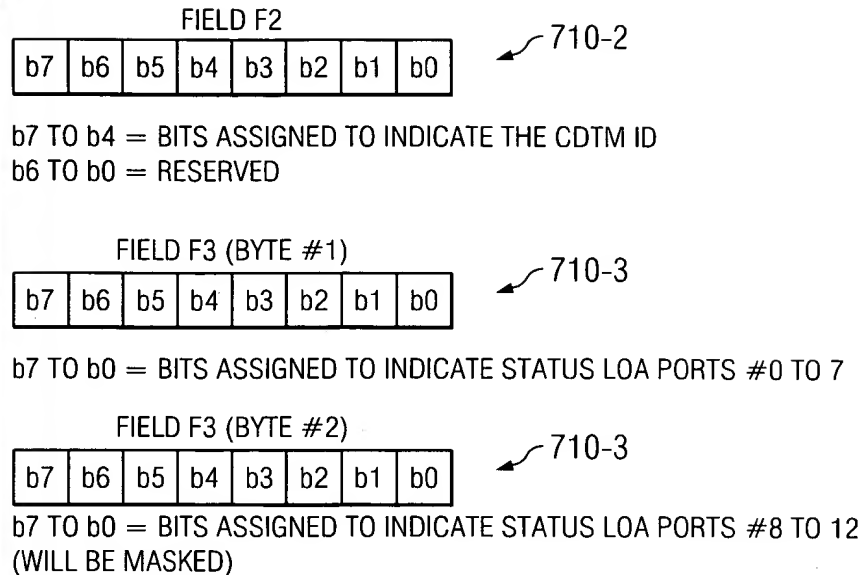


FIG. 20H

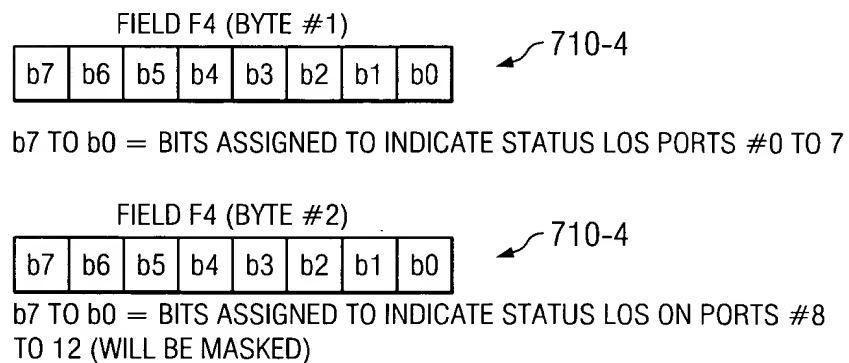


FIG. 20I

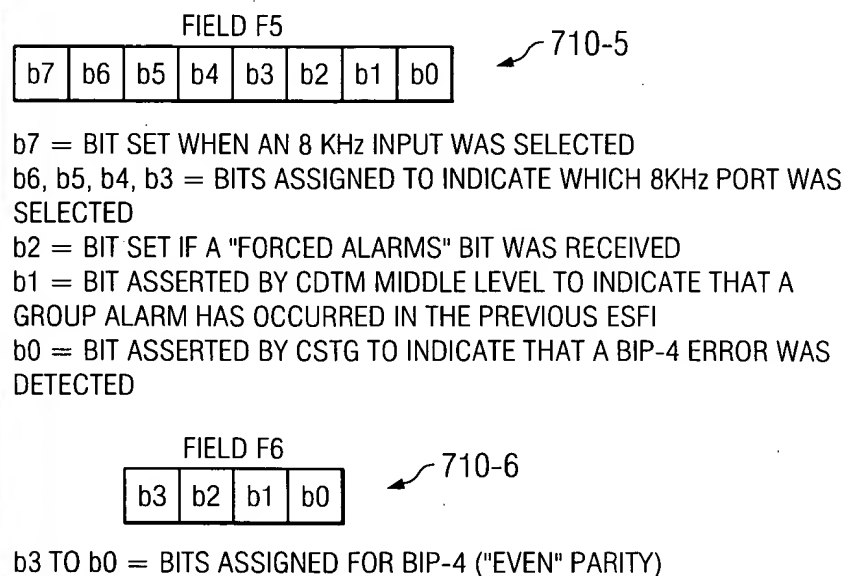


FIG. 20J

FRAME# $1 + 8 \times N$ ($N = 0$ TO 95) : THESE FRAMES ARE ALLOCATED FOR CDTM LOWEST LEVEL

FIELD F7

b7	b6	b5	b4	b3	b2	b1	b0
----	----	----	----	----	----	----	----

710-7

b7 = RESERVED

b6 = RESERVED

b5 = BIT SET WHEN OUTBOUND SFI ERRORS ARE DETECTED

NOTE: OUTBOUND ERRORS: "TWO BITS VIOLATIONS" OR BIP-8 ONLY FOR FRAME #0 OF THE SFI

b4 = BIT SET WHEN ONE OF THE STATUS SIGNAL IS IN LOS (EXCEPT FOR THE UNUSED PORTS)

b3 = BIT SET WHEN THE SELECTED 8KHz IS IN LOC

b2, b1 = BIT ASSIGNED TO INDICATE THE LEVEL OF THE CDTM (11 FOR L1, 10 FOR L2 AND 01 FOR L3)

b0 = BIT ASSIGNED TO INDICATE THE PLANE (0 FOR A AND 1 FOR B)

FIG. 20K

FIELD F8

b7	b6	b5	b4	b3	b2	b1	b0
----	----	----	----	----	----	----	----

710-8

b7 TO b0 = BITS ASSIGNED FOR CDTM ID

FIELD F9 (BYTE #1)

b7	b6	b5	b4	b3	b2	b1	b0
----	----	----	----	----	----	----	----

710-9

b7 TO b0 = BITS ASSIGNED TO INDICATE STATUS LOA PORTS #0 TO 7

FIELD F9 (BYTE #2)

b7	b6	b5	b4	b3	b2	b1	b0
----	----	----	----	----	----	----	----

710-9

b7 TO b0 = BITS ASSIGNED TO INDICATE STATUS LOA PORTS #8 TO 15

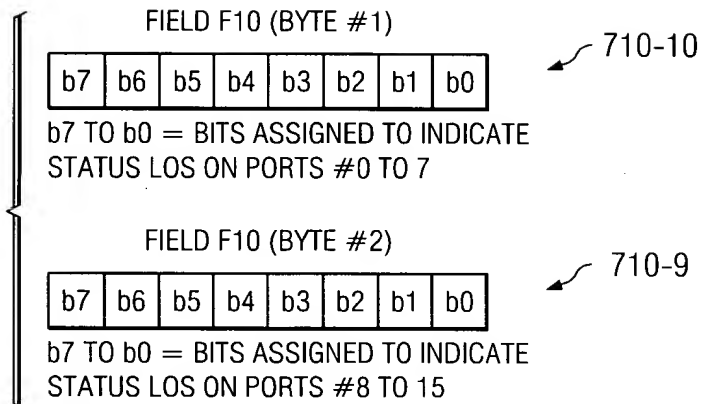
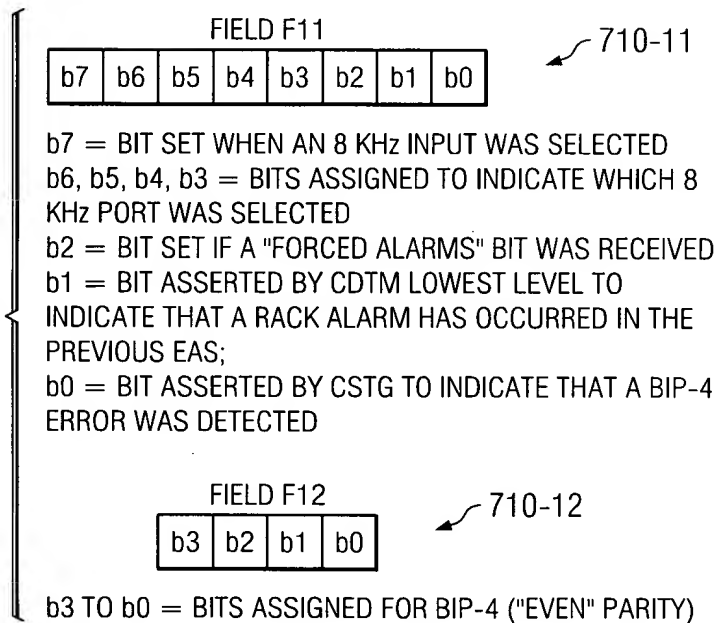
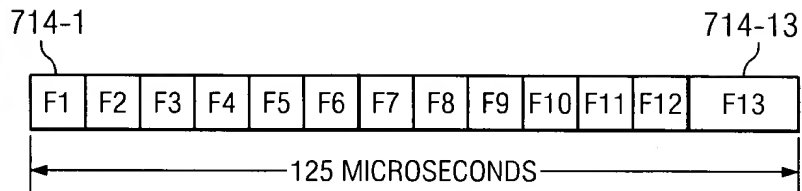
FIG. 20L*FIG. 20M*

FIG. 20N

FRAMES # (2 TO 7) + 8 x N (N = 0 TO 95)

EACH OF THESE FRAMES ARE ALLOCATED FOR A PAIR
OF BCTM CARDS (A&B)



BCTM (A)

712-J

F1 = 2 BYTES ALLOCATED FOR ALARMS

F2 = 2 BYTES ALLOCATED FOR SHELF ID AND CLOCK SELECTION

F3 = 1 BYTE ALLOCATED FOR PBA "HEALTH"

F4 = 1 BYTE ALLOCATED FOR PBA "PRESENCE"

F5 = 1 BYTE ALLOCATED FOR MISC

F6 = 4 BITS ALLOCATED FOR BIP-4

BCTM (B)

F7 = 2 BYTES ALLOCATED FOR ALARMS

F8 = 2 BYTES ALLOCATED FOR SHELF ID AND CLOCK SELECTION

F9 = 1 BYTE ALLOCATED FOR PBA "HEALTH"

F10 = 1 BYTE ALLOCATED FOR PBA "PRESENCE"

F11 = 1 BYTE ALLOCATED FOR MISC

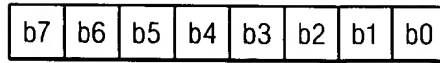
F12 = 4 BITS ALLOCATED FOR BIP-4

F13 = 1.5 BITS EMPTY FIELD (FORCED TO "0")

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FIG. 200

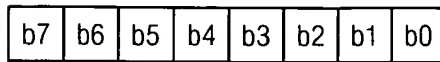
BCTM (A)
FIELD F1 (BYTE #1)



714-1

b7, b6 = BITS ALLOCATED FOR PSU #1 (A) ALARM
 b5, b4 = BITS ALLOCATED FOR PSU #2 (B) ALARM
 b3, b2 = BITS ALLOCATED FOR TWO FAN ALARMS
 b1, b0 = BITS ALLOCATED FOR ESWT PWR ALARM

FIELD F1 (BYTE #2)

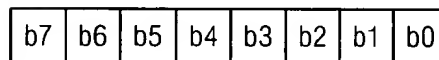


714-1

b7 = BITS ALLOCATED FOR BREAKER PANEL ALARM
 b6 = BIT ALLOCATED FOR TEMP CONTROL
 b5 = BIT ALLOCATED TO INDICATE PLANE A LOST (LOC, LOS, SFI LOF)
 b4 = BIT ALLOCATED TO INDICATE PLANE B LOST (LOC, LOS, SFI LOF)
 b3 = BIT ALLOCATED TO INDICATE "TWO BITS VIOLATION" OR BIP-8
 ERRORS PLANE A (ONLY FOR THE FRAME ALLOCATED FOR THAT
 PARTICULAR RACK)
 b2 = BIT ALLOCATED TO INDICATE "TWO BITS VIOLATION" OR BIP-8
 ERRORS PLANE B (ONLY FOR THE FRAME ALLOCATED FOR THAT
 PARTICULAR RACK)
 b1 = ONE BIT TO INDICATE THAT A FORCED ALARM BIT WAS RECEIVED
 b0 = RESERVED

FIG. 20P

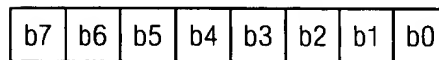
FIELD F2 (BYTE #1)



714-2

b7 TO b0 = HIGHER 8 BITS OF THE BCTM ID

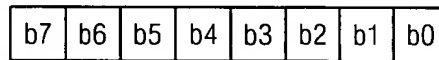
FIELD F2 (BYTE #2)



714-2

b7 TO b4 = LOWER 4 BITS OF THE BCTM ID
 b3 = BIT SET TO INDICATE THAT AN 8 KHz CLOCK WAS SELECTED
 b2 TO b0 = BITS ALLOCATED TO INDICATE WHICH CLOCK WAS
 SELECTED

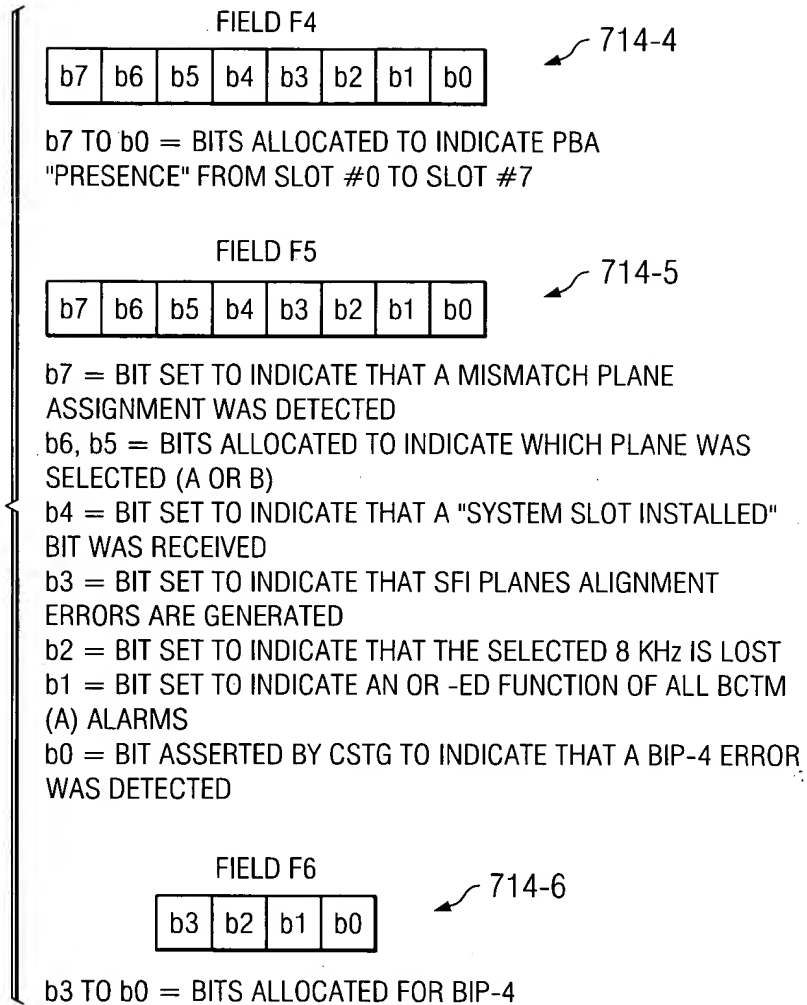
FIELD F3

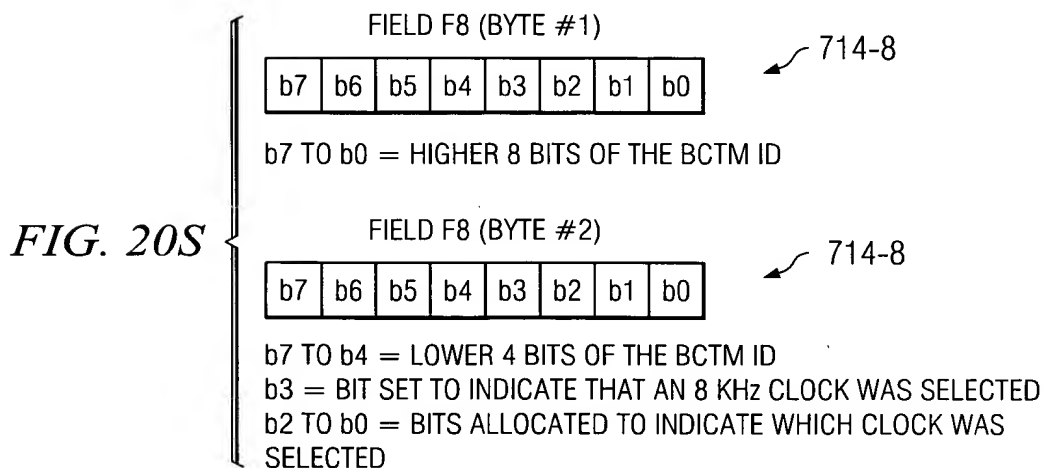
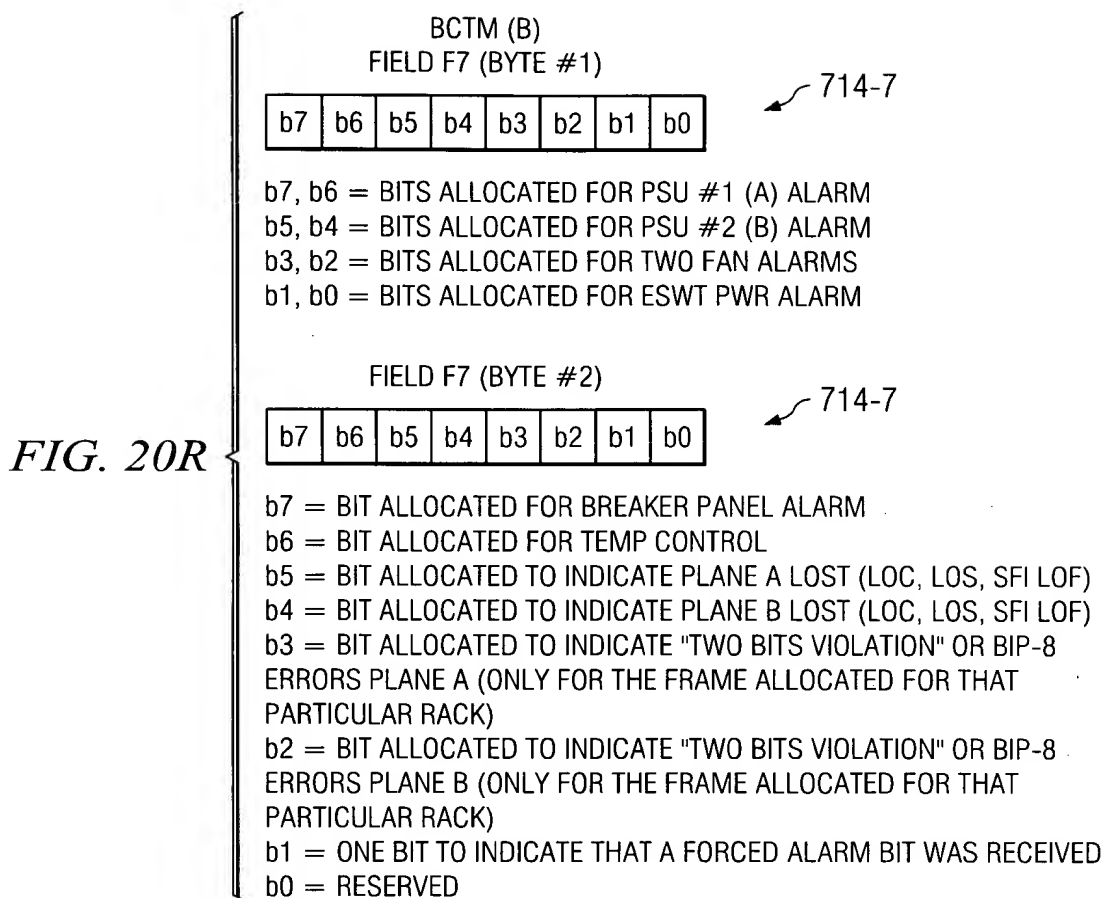


714-3

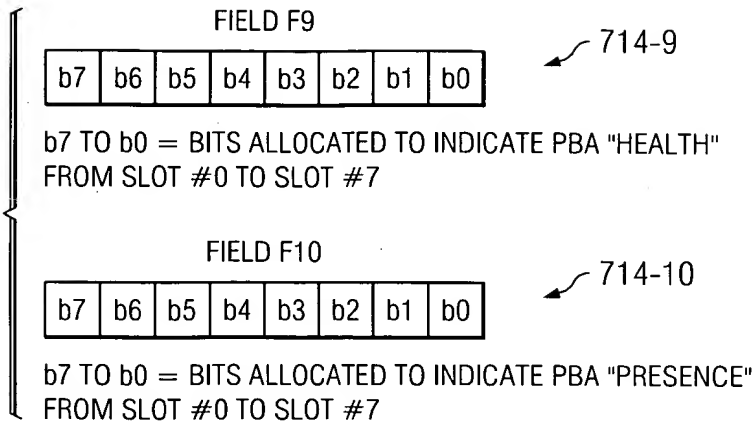
b7 TO b0 = BITS ALLOCATED TO INDICATE PBA "HEALTH" FROM
 SLOT #0 TO SLOT #7

FIG. 20Q





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FIG. 20T*FIG. 20U*